



## SEQUENCE LISTING

<110> Nixon, Andrew  
Hogan, Shannon

<120> PAPP-A LIGANDS

<130> 10280-059001

<140> US 10/783,311

<141> 2004-02-19

<150> US 60/448,515

<151> 2003-02-19

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<212> PRT

<213> Homo sapiens

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Gln Tyr Ala Ser Asn Ala Ser Ser Pro Met Pro Cys Ser Pro Ser Gly				
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Gln Leu Leu Asp Thr Lys Asp Gln Ser His Asp Leu Gly Leu His Val				
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Leu Ser Cys Arg Asn Asn Pro Leu Ile Ile Pro Val Val His Asp Leu				
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				1150

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 Thr Ser Thr Val Lys Thr Lys Lys Val Thr Pro Phe Pro Met Ser Cys  
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 Asp Leu Gln Gly Asp Cys Ala Cys Arg Asp Pro Gln Ala Gln Glu His

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Val Thr Gln Thr Cys Phe	Asp Pro Asp Ser Pro	His Arg Ala Tyr Leu
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Asp Val Asn Glu Leu Lys	Asn Ile Leu Lys Leu	Asp Gly Ser Thr His
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Leu Asn Ile Phe Phe Ala	Lys Ser Ser Glu Glu	Glu Leu Ala Gly Val
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Ala Thr Trp Pro Trp Asp	Lys Glu Ala Leu Met	His Leu Gly Gly Ile
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Val Leu Asn Pro Ser Phe	Tyr Gly Met Pro Gly	His Thr His Thr Met
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Ile His Glu Ile Gly His	Ser Leu Gly Leu Tyr	His Val Phe Arg Gly
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Ile Ser Glu Ile Gln Ser	Cys Ser Asp Pro Cys	Met Glu Thr Glu Pro
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Val Thr Leu Glu Trp Phe	Pro Pro Ile Asp Gly	His Phe Phe Glu Arg
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Glu Leu Gly Ser Ala Cys	His Leu Cys Leu Glu	Gly Arg Ile Leu Val
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Gln Tyr Ala Ser Asn Ala	Ser Ser Pro Met Pro	Cys Ser Pro Ser Gly
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Cys Lys Pro Leu Lys Tyr	Lys Val Val Arg Asp	Pro Pro Leu Gln Met
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Asp Val Ala Ser Ile Leu	His Leu Asn Arg Lys	Phe Val Asp Met Asp
820	825	830

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 Thr Glu Glu Ser Glu Pro Ser Pro Ala Val Thr Tyr Ile His Gly Arg  
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 Gly Tyr Cys Gly Asp Gly Ile Ile Gln Lys Asp Gln Gly Glu Gln Cys  
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 Asp Asp Met Asn Lys Ile Asn Gly Asp Gly Cys Ser Leu Phe Cys Arg  
 885 890 895  
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 Lys Asp Cys Gly Val Tyr Thr Pro Gln Gly Phe Leu Asp Gln Trp Ala  
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 995 1000 1005  
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 Gln Leu Leu Asp Thr Lys Asp Gln Ser His Asp Leu Gly Leu His Val  
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Thr	Val	Arg	Asp	Ile	Pro	His	Trp	Leu	Asn	Pro	Thr	Arg	Val	Glu	Arg	
			1445					1450						1455		
Val	Val	Cys	Thr	Ala	Gly	Leu	Lys	Trp	Tyr	Pro	His	Pro	Ala	Leu	Ile	
		1460						1465				1470				
His	Cys	Val	Lys	Gly	Cys	Glu	Pro	Phe	Met	Gly	Asp	Asn	Tyr	Cys	Asp	
	1475						1480				1485					
Ala	Ile	Asn	Asn	Arg	Ala	Phe	Cys	Asn	Tyr	Asp	Gly	Gly	Asp	Cys	Cys	
	1490					1495				1500						
Thr	Ser	Thr	Val	Lys	Thr	Lys	Lys	Val	Thr	Pro	Phe	Pro	Met	Ser	Cys	
1505					1510					1515					1520	
Asp	Leu	Gln	Gly	Asp	Cys	Ala	Cys	Arg	Asp	Pro	Gln	Ala	Gln	Glu	His	
			1525					1530						1535		
Ser	Arg	Lys	Asp	Leu	Arg	Gly	Tyr	Ser	His	Gly						
		1540						1545								

<210>	3
<211>	405
<212>	DNA
<213>	Unknown

<220>  
<223> Light Chain nucleic acid sequence

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<400> 3
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atcacttgcc gggctagtca ggcgattagt agttatgtaa attgggatca acagaaacca      180
gggaaagccc ctaagctcct gatctattct gcattccagt tacaaagtgg ggtcccacat      240
aggttcagtg gcagtgatat tgggacagag ttcactctca ccatcagcag tctgcaacct      300
gaggattttg caacttacta ctgtcaacag agttaccgta cccctccttt ttttggccag      360
gggaccaagc tggagggtcaa acgaactgtg gctgcaccat ctgtc      405
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<210>	4
<211>	405
<212>	DNA
<213>	Unknown

<220>



## &lt;223&gt; Light Chain nucleic acid

&lt;400&gt; 4

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aggttcagtg	gcagtgggtc	tgggacagag	ttcactctca	ccatcagcag	cctgcagtct	300
gaagattttg	cagtttatca	ctgtcagcag	tataatagca	ggcctctcac	tttcggcgga	360
gggaccaagg	tggagatcaa	acgaactgtg	gctgcaccat	ctgtc		405

&lt;210&gt; 5

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 5

gtgaaaaaat	tattattcgc	aattccttta	gttggttcctt	tctattctca	cagtgcacaa	60
gacatccaga	tgacccagtc	tccagccacc	ctgtctgtgt	ctccagggga	aagagccacc	120
ctctcctgca	gggccagtca	gagtgttcgc	agctacttag	cctggtacca	gcagaaacca	180
ggccaggctc	ccaggctcct	catctatgat	gcatccacca	gggccactgg	tatcccagcc	240
agattcagtg	gcagtgggtc	tgggacagag	ttcactctca	ccatcagcag	cctgcagtct	300
gaagattttg	cagtttatta	ctgtcagcag	tataataact	ggcctccgac	gttcggccaa	360
gggaccaagg	tggaaatcaa	acgaactgtg	gctgcaccat	ctgtc		405

&lt;210&gt; 6

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 6

gtgaaaaaat	tattattcgc	aattccttta	gttggttcctt	tctattctca	cagtgcacaa	60
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ctctcctgca	gggccagtca	ggatgttaac	agatacttag	cctggtacca	gcagaaacct	180
ggccagcctc	ccaggctcct	catctatggt	gcctctacca	gggccactgg	tatcccagcc	240
aggatcagtg	gcagtgggtc	tgggacagag	ttcactctca	ccatcagcag	cctgcagtct	300
gaagattttg	cagtttatta	ctgtcagcag	tatcataact	ggcccctcac	tttcggcgga	360
gggaccaagg	tggagatcaa	acgaactgtg	gctgcaccat	ctgtc		405

&lt;210&gt; 7

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 7

gtgaaaaaat	tattattcgc	aattccttta	gttggttcctt	tctattctca	cagtgcacaa	60
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ctctcctgca	gggccagtca	gagtgttagc	agctacttag	cctggtacca	acagaaacct	180
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aggttcagt	gcagtgggtc	tgggacagac	ttcactctca	ccatcggcag	actggagcct	300
gaagattttg	cagtgtatta	ctgtcagcag	tatagtagtt	caccggtcac	cttcggccaa	360
gggacacgac	tggagattaa	acgaactgtg	gctgcaccat	ctgtc		405

&lt;210&gt; 8

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 8

gtgaaaaaat	tattattcgc	aattccttta	gttggtcctt	tctattctca	cagtgcacaa	60
gacatccaga	tgaccagtc	tccagccacc	ctgtccttgt	ctccagggga	aagagccacc	120
ctctcctgca	gggccagtca	gagtgttagc	aggtacttag	cctggtacca	acagaaacct	180
ggccaggctc	ccaggctcct	catctatggt	gcatccacca	gggccactgg	tatcccagcc	240
aggttcagt	gcagtgggtc	tgggacagag	ttcactctca	ccatcagcag	cctgcagtct	300
gaagattttg	cagtttatta	ctgtcagcag	tataataact	ggccttcttt	cggcggaggg	360
accaaggtgg	agatcaaacg	aactgtggct	gcaccatctg	tc		402

&lt;210&gt; 9

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 9

gtgaaaaaat	tattattcgc	aattccttta	gttggtcctt	tctattctca	cagtgcacaa	60
gacatccaga	tgaccagtc	tccaggcacc	ctgtccttgt	ctccagggga	aagagccacc	120
ctctcctgca	gggccagtca	gagtattagc	agcagctact	tagcctggta	ccagcagaaa	180
cctggccagg	ctcccaggct	cctcatctat	gctgcagcca	gcagggccac	tggcatccca	240
gacaggttca	gtggcattgg	gtctgggaca	gacttcactc	tcaccatcag	cagcctagag	300
cctgaagatt	ttgcagttta	ttactgtcag	cagcgtagca	actggcctct	cactttcggc	360
ggagggacca	aggtggagat	caaacgaact	gtggctgcac	catctgtc		408

&lt;210&gt; 10

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 10

gtgaaaaaat	tattattcgc	aattccttta	gttggtcctt	tctattctca	cagtgcacaa	60
gacatccaga	tgaccagtc	tccaggcacc	ctgtccttgt	ctccagggga	aagagccacc	120
ctctcctgca	gggccagtca	gagtgttagc	agcagctact	tagcctggta	ccagcagaaa	180
cctggccagg	ctcccaggct	cctcatctat	ggtgcatcca	gcagggccac	tggcatccca	240
gacaggttca	gtggcagtgg	gtctgggaca	gacttcactc	tcaccatcag	cagactggag	300
cctgaagatt	ttgcagtgtg	ttactgtcag	cagtatggta	gctcaccgtg	gacgttcggc	360
caagggacca	aggtggaaaat	caaacgaact	gtggctgcac	catctgtc		408

<210> 11  
 <211> 405  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Light Chain nucleic acid sequence

<400> 11  
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 atcacttgtc gggcgagtc ggacattagc aattatttag cctgggttca gcagaaacca 180  
 gggagagccc ctaagtcctt gatctatggt gcatccagtt tgcaaactgg ggtcccatca 240  
 aagttcagcg gcagtggatc tgggacagag ttcactctca ccatcagcgg cctgcagcct 300  
 gaagatgttg caacttatta ctgccatcag tataatcatt accctccac tttcggcgga 360  
 gggaccaagg tggagatcaa acgaactgtg gctgcacat ctgtc 405

<210> 12  
 <211> 405  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Light Chain nucleic acid sequence

<400> 12  
 gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa 60  
 gacatccaga tgaccagtc tccatcctca ctgtctgcat ctgtaggaga cagagtcacc 120  
 atcacttgtc gggcgagtc ggacattagc aattatttag cctgggttca gcagaaacca 180  
 ggggaagccc ctaagtcctt gatctatgct ggtccagtt tgcaagtggt ggtctcatca 240  
 aacttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 300  
 gaagatgttg caacttatta ctgccagcag tatcataggt acccgaggac ttttggtcag 360  
 gggaccaagc tggagatcaa acgaactgtg gctgcacat ctgtc 405

<210> 13  
 <211> 560  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Light Chain nucleic acid sequence

<400> 13  
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 gacatccaga tgaccagtc tccatcctca ttctctgcat ctacaggaga cagagtcacc 120  
 atcacttgtc gggcgagtc gggattagc agttatttag cctgggtatca gcaaaaacca 180  
 gggaaagccc ctaagtcctt gatctatgct gcatccactt tgcaaagtgg ggtcccatca 240  
 aagttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 300  
 gaagatgttg caacttatta ctgccaacag tataatagtt accccctcac cttcggccaa 360  
 gggacacgac tggagattaa acgaactgtg gctgcacat ctgtcttcat cttcccgcc 420  
 tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 480  
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 gagagtgtca cagagcagga 560

<210> 14  
 <211> 405  
 <212> DNA

## &lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 14

gtgaaaaaat	tattattcgc	aattccttta	gttggtcctt	tctatttctca	cagtgcacaa	60
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atcacttgcc	gggcaagtca	gggcattaga	aatgagttag	gttggtatca	gcagaaacca	180
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agattcagcg	gcggtggatc	taggacagaa	ttcactctca	ccatcagcag	cctggaacct	300
catgattttg	gaacttatta	ctgccaacaa	tatgccagtt	atccgctcac	tttcggcgga	360
gggaccaagg	tggagatcaa	acgaactgtg	gctgcaccat	ctgtc		405

&lt;210&gt; 15

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 15

gtgaaaaaat	tattattcgc	aattccttta	gttggtcctt	tctatttctca	cagtgcacaa	60
gacatccaga	tgacccagtc	tccatcctcc	ctgtctgcat	ctgtaggaga	cagagtcacc	120
atcacttgcc	gggcaagtca	gagcattagc	agctatttaa	attggtatca	gcagaaacca	180
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gaagattttg	caacttacta	ctgtcaacag	agttacagta	ccaggtggac	gttcggccaa	360
gggaccaagg	tggaaatcaa	acgaactgtg	gctgcaccat	ctgtc		405

&lt;210&gt; 16

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 16

gtgaaaaaat	tattattcgc	aattccttta	gttggtcctt	tctatttctca	cagtgcacaa	60
gacatccaga	tgacccagtc	tccatcctcc	ctgtctgcat	ctgtaggaga	cagagtcacc	120
atcacttgcc	gggcaagtca	gagcattagc	agctatttaa	attggtatca	gcagaaacca	180
gggaaagccc	ctaagctcct	gatctatgct	gcatccagtt	tgcaaagtgg	gggtcccatca	240
aggttcagtg	gcagtggatc	tgggacagat	ttcactctca	ccatcagcag	tctgcaacct	300
gaagattttg	caacttacta	ctgtcaacag	agttacagta	ccaggtggac	gttcggccaa	360
gggaccaagg	tggaaatcaa	acgaactgtg	gctgcaccat	ctgtc		405

&lt;210&gt; 17

&lt;211&gt; 560

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 17

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gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa      60
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc      120
atcacttgcc gggcaagtca gggcattaga aatgatttag gctgggttca gcagaaacca      180
gggaaagccc ctaggcgctt gatctggggt gcatccactt taaaaagtgg ggtcccacatca    240
aggttcagcg gcagtggatc tggcacagat ttcactctca ccatcagcag cctgcagcct      300
gaagattttg caacttatta ctgtctacaa gattacaatt acccgtagac ttttggccag      360
gggaccaagc tggagatcaa acgaactgtg gctgcacccat ctgtcttcat cttcccgcga      420
tctgatgagc agttgaaatc tggaaactgcc tctgttgtgt gcctgctgaa taacttctat      480
cccagagagg ccaaagtaca gtggaagggt gataacgcc tccaatcggg taactcccag      540
gagagtgtca cagagcagga

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<210> 18

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 18

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gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa      60
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc      120
atcacttgcc gggcaagtca gggcattaga cattatttag gctgggtatca gcagaaacca      180
gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaatttgg ggtcccagca      240
aggttcagcg gcagtggatc tgggacggaa ttcactctca caatcagcag cctgcagcct      300
gaagattttg caacttatta ctgtctacaa cacaatagtt tccctccggc gttcggccaa      360
gggaccaagg tggaaatcaa acgaactgtg gctgcacccat ctgtc

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<210> 19

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 19

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gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa      60
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc      120
atcacttgcc gggcaagtca gggcattaga cattatttag gctgggtatca gcagaaacca      180
gggaaagccc ctaagcgctt gatctatgct gcatccagtt tgcaatttgg ggtcccagca      240
aggttcagcg gcagtggatc tgggacggaa ttcactctca caatcagcag cctgcagcct      300
gaagattttg caacttatta ctgtctacaa cacaatagtt tccctccggc gttcggccaa      360
gggaccaagg tggaaatcaa acgaactgtg gctgcacccat ctgtc

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<210> 20

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 20

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gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa      60
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc      120
atcacttgcc gggcaagtca gggcattaga cattatttag gctgggtatca gcagaaacca      180

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gggaaagccc ctaagcgcct gatctatgct gcatccagtt tgcaatttgg ggtcccagca    240
aggttcagcg gcagtggatc tgggacggaa ttcactctca caatcagcag cctgcagcct    300
gaagattttg caacttatta ctgtctacaa cacaatagtt tccctccggc gttcggccaa    360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtc                    405

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<210> 21

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 21

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gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa    60
gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc    120
atctcttgcc gcgcaagtca gaacattagg aactctgtaa attggtatca gcagaaacca    180
gggaaagccc ctaagctcct gatctatgct acatacgatt tgcaagtggt cgccccatca    240
tacttcagtg gcagtggatc tgggacagat ttcactctca ccatcaccag tctgcaacct    300
gaagattttg caacttacta ctgtcaacag agttacagtt tccctcgaac gttcggccaa    360
gggaccaagg tggaaatcag acgaactgtg gctgcaccat ctgtc                    405

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<210> 22

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 22

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gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa    60
gacatccaga tgaccagtc tccatcctcc gtgtctgcat ctgtaggaga cagaatcgcc    120
atcacttgtc gggcgagtc gggatttagc acctggtagg cctggtagtca gcagagacca    180
gggagagccc ctaagctcct gatctatgct gcatccactt tgcaaaagcg agtccccatca    240
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct    300
gaagattttg caacttactt ttgtcaacag gctgacagtt tccccctgac ttttggccag    360
gggaccaaac tggagatcaa acgaactgtg gctgcaccat ctgtc                    405

```

<210> 23

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 23

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gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctca cagtgcacaa    60
gacatccaga tgaccagtc tccatcctcc gtgtctgcat ctgtaggaga cagagtcacc    120
atcacttgtc gggcgagtc gggatttagc agatggtagg cctggtagtca gcagaaacca    180
gggaaagccc ctaagctcct gatctatggt gcatccactt tgcaaaaagg ggtcccatca    240
aggttcaccg gcagtggatc tgggacagat ttcactctca ccatcaccag cctgcagcct    300
gaagattttg caacttacta ttgtcaacag ggtaacagtt tcccattcac tttcggccct    360
gggaccaaag tggatatcaa acgaactgtg gctgcaccat ctgtc                    405

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<210> 24

<211> 405  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Light Chain nucleic acid sequence

<400> 24  
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 atcacttgtc gggcgagtcg ggggtattagc agatgggttag cctgggtatca gcagaaacca 180  
 gggaaagccc ctaagctcct gatctatggt gcatccactt tgcaaaaagg ggtcccatca 240  
 aggttcaccg gcagtggatc tgggacagat ttactcttca ccatcaccag cctgcagcct 300  
 gaagattttg caacttacta ttgtcaacag ggtaacagtt tcccattcac tttcggcct 360  
 gggaccaaaag tggatatcaa acgaactgtg gctgcaccat ctgtc 405

<210> 25  
 <211> 405  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Light Chain nucleic acid sequence

<400> 25  
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 gacatccaga tgacccagtc tccgtcttcc gtgtctgcat ctgtaggaga cagagtcacc 120  
 atcacttgtc gggcgagtcg ggggtattagc agctgggttag cctgggtatca gcagaagcca 180  
 gggaaagccc ctaagttgct gatctatggt gcatccagtt tggaaagtgg ggtcccatca 240  
 agattcagcg gcagtggatc tgggacagat tacactctca ccatcaccag cctacagcct 300  
 gaagattttg caacttactt ttgtcaacag gttaattctt tccctcgtag ttttggccag 360  
 gggaccaagc tgaatatcaa acgaactgtg gctgcaccat ctgtc 405

<210> 26  
 <211> 539  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Light Chain nucleic acid sequence

<400> 26  
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 agcgaattga ctgagataag ggccagggtc ctggagtccc cagccgcttc tctggatcca 120  
 aagatgctgc agccaatgca ggggttttac tcatctccgg cctccagccc gaggatgatg 180  
 ctgactatct ttgtatgata tgggtaagca atgtacatgc gacattcggc ggagggacca 240  
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 ctgaggagct tcaagccaac aaggccacac tgggtgtgtc cataagtgc ttctaccggg 360  
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 ccacaccctc caaacaagc aacaacaagt acgcgccag cagctatcta agcctgacgc 480  
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<210> 27  
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 <212> DNA  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 27

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tggtctggaa	gcagctccaa	catcggacgt	aatttggtat	actggtacca	gcagctccca	180
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gaggaggagg	ctgattatta	ctgtgcagca	tgggatgaca	gcctgagtgg	ttgggtgttc	360
ggcggaggga	ccaggctgac	cgtcctaggt	cagcccaagg	ctgccccctc	g	411

&lt;210&gt; 28

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 28

gtgaaaaaat	tattattcgc	aattccttta	gttggttcctt	tctattctca	cagtgcacag	60
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tggtctggaa	gcagctccaa	catcgggaagt	aattttgtat	actggtacca	ccatctccca	180
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gaggatgagg	ctgattatta	ctgtgcagca	tgggatgaca	gcctgagtgg	gggtggtattc	360
ggcggaggga	ccaagctgac	cgtcctaggt	cagcccaagg	ctgccccctc	g	411

&lt;210&gt; 29

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 29

gtgaaaaaat	tattattcgc	aattccttta	gttggttcctt	tctattctca	cagtgcacag	60
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gctgatgacg	aggctgatta	ttactgcagc	tcatatacaa	gcggcagcac	ccgttatgtc	360
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&lt;210&gt; 30

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 30

gtgaaaaaat	tattattcgc	aattccttta	gttggttcctt	tctattctca	cagtgcacag	60
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gctgatgacg	aggctgatta	ttactgcagc	tcatatacaa	gcggcagcac	ccgttatgtc	360
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&lt;210&gt; 31

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 31

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&lt;210&gt; 32

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 32

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&lt;210&gt; 33

&lt;211&gt; 560

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 33

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ggaacggccc	ccaaactcct	catctatagt	gatgatcagc	ggccctcagg	ggtccctgac	240
cgattctctg	gatccaagtc	tggcacctca	gcctccctgg	ccatcagtgg	gctccagtct	300
gaggatgagg	ctgactatta	ctgtgcaaca	tgggataaca	ccctgagagg	tgtgggtttc	360
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<210> 34

<211> 429

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 34

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tgcaccctga	gcagcggcta	cagtaattat	aaagtggact	ggatcagca	aagaccaggg	180
aagggccccc	agtttgtgat	gcgagtgggc	agtggcggga	ttgtgggatc	aaagggggat	240
ggcatccctg	atcgcttttc	agtcctgggc	tcaggcctgt	atcggtatct	gaccatcaag	300
aacatccagg	aagaggatga	gagtgactac	tattgtgggg	cagaccatgg	cagggggggc	360
accttcgtgt	gggtgttcgg	cggagggacc	aaactgaccg	tcctagggtca	gccaagggt	420
gccccctcg						429

<210> 35

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 35

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tgcactggaa	ccagcagtga	cgttgggtgt	tataactatg	tctcctggta	ccaacgacac	180
ccaggcaaag	cccccaaact	cattatttat	gatgtcacta	atcgcccttc	aggggcttct	240
cgtcacttct	ctggctccaa	gtctggcaac	acggcctccc	tgaccatctc	tggtctccag	300
gccgacgacg	aggctgatta	ttattgcgtt	tcatttacaa	acagcaatac	tttcgtcttc	360
ggaagtggga	ccagggtcac	cgtcctcggg	cagcccaagg	ccaacccac	t	411

<210> 36

<211> 417

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 36

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agcaggggtg	aggctgagga	tggtggcatt	tattactgca	tgcaagctct	acacactcct	360
cccttcggcc	aagggtacac	actggagatt	aaacgaactg	tggctgcacc	atctgtc	417

<210> 37

<211> 405

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 37

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tgctctggag	ataaattggg	ggataaatat	gttgccctgg	atcagcagaa	gccaggccag	180
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tctggctcca	actctgggaa	cacagccact	ctgaccatca	gtgggaccca	ggctatggat	300
gacgctgact	attactgtca	ggcgtgggac	agaagcactg	accattatgt	cttcggaact	360
gggaccaagg	tcaccgtcct	aggtcagccc	aaggccaacc	ccact		405

<210> 38

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 38

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tgcaactggaa	ccagcagcga	cggtgggtgg	tataactatg	tctcctggta	ccaacagcac	180
ccaggcaaag	cccccaaact	catgatttat	gaggtcagta	atcgccctc	aggggtttct	240
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gctgaggacg	aggctgatta	ttactgtggg	tcatatagaa	agagcagcac	tccttatgtc	360
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<210> 39

<211> 413

<212> DNA

<213> Artificial Sequence

<220>

<223> Light Chain nucleic acid sequence

<400> 39

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cttggttctgg	aagcagctac	aacatcggag	tttatgatgt	atactggtac	cagcagctcc	180
caggaacggc	ccccaaactc	ctcatctata	ccaataatca	gcggccctca	ggggtccctg	240
accgattctc	tggtccaag	tctggcacct	cagcctccct	ggccatcagt	gggctccagt	300
ctgaggatga	ggctgattat	tactgtgcag	catgggatga	cagtctgagt	ggttgggtgt	360
tcggcggagg	gaccaagggtg	accgtcctag	gtcagcccaa	ggctgcccc	tcg	413

<210> 40

<211> 387

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

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<400> 40
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cctggtaaag gtttggagtg ggtttctggt atcgtttctt ctggtggcct tactgggtat      180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagacataat      300
agggctattg gcacctttga ctactggggc cagggaaccc tggtcaccgt ctcaagcgcc      360
tccaccaagg gcccatcggt cttcccg

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<210> 41
<211> 369
<212> DNA
<213> Artificial Sequence

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<220>
<223> Heavy Chain nucleic acid sequence

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<400> 41
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cctggtaaag gtttggagtg ggtttcttct atctatcctt ctggtgggta tactatgtat      180
gctgactctg ttaaaggctc cttcactatc tctagagaca actctaagaa gactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gactgacttt      300
ggtagctggg gccaggggaa cctggtcacc gtctcaagcg cctccaccaa gggcccatcg      360
gtcttcccg

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<210> 42
<211> 369
<212> DNA
<213> Artificial Sequence

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<220>
<223> Heavy Chain nucleic acid sequence

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<400> 42
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cctggtaaag gtttggagtg ggtttcttct atcgttcctt ctggtgggta tactcggtat      180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gactgacttt      300
ggtagctggg gccaggggaa cctggtcacc gtctcaagcg cctccaccaa gggcccatcg      360
gtcttcccg

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<210> 43
<211> 369
<212> DNA
<213> Artificial Sequence

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<220>
<223> Heavy Chain nucleic acid sequence

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<400> 43
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tcttgcgctg cttccggatt cactttctct cgttactcta tgaattgggt tcgccaagct      120
cctggtaaag gtttggagtg ggtttcttat atctctcctt ctggtggcat gactaagtat      180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaataccctt      300

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ggctactggg gccaggggaac cctgggtcacc gtctcaagcg cctccaccaa gggcccatcg 360  
gtcttcccg 369

<210> 44

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 44

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tcttgcgctg	cttccggatt	cactttctct	tcttaccgta	tgaattgggt	tcgccaagct	120
cctggtaaaag	gtttggagtg	ggtttctgg	atcggttcctt	ctggtggcaa	gactttttat	180
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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagtgacttt	300
ggtagctggg	gccaggggaac	cctgggtcacc	gtctcaagcg	cctccaccaa	gggcccatcg	360
gtcttcccg						369

<210> 45

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 45

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tcttgcgctg	cttccggatt	cactttctct	aattactcta	tggattgggt	tcgccaagct	120
cctggtaaaag	gtttggagtg	ggtttcttg	atctctcctt	ctggtggcct	tactacttat	180
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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagtgacttt	300
ggtagctggg	gccaggggaac	cctgggtcacc	gtctcaagcg	cctccaccaa	gggcccatcg	360
gtcttcccg						369

<210> 46

<211> 393

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 46

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catggtaaaag	gtttggagtg	ggtttcttat	atctctcctt	ctggtggcaa	gactctttat	180
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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagacatttg	300
ggatatgggt	cggggagtta	ctttgactac	tggggccagg	gaaccctggt	caccgtctca	360
agcgcctcca	ccaagggccc	atcgggtcttc	ccg			393

<210> 47

<211> 390

<212> DNA

## &lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 47

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tcttgcgctg	cttccggatt	cactttctct	ttttacccta	tgcttggtg	tcgccaagct	120
cctggtaaag	gtttgagtg	ggtttcttat	atctctcctt	ctggtggcga	tactacttat	180
gctgactccg	ttaaaggctg	cttcactatc	tctagagaca	actctaagaa	tactttctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagagggggg	300
tcctatagca	gcagttggta	cggctactgg	ggccagggaa	ccctggtcac	cgtctcaagc	360
gcctccacca	agggcccatc	ggtcttcccg				390

&lt;210&gt; 48

&lt;211&gt; 387

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 48

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tcttgcgctg	cttccggatt	cactttctct	aagtacccta	tgttttgggt	tcgccaagct	120
cctggtaaag	gtttgagtg	ggtttcttgg	atctctcctt	ctggtggcaa	gactgtttat	180
gctgactccg	ttaaaggctg	cttcactatc	tctagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gaaagattgc	300
agaggggggt	gcagtggtg	aagttggggc	cagggaaacc	tggtcacctg	ctcaagcgcc	360
tccaccaagg	gcccacgggt	cttcccg				387

&lt;210&gt; 49

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 49

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cctggtaaag	gtttgagtg	ggtttcttat	atctcttctt	ctggtactgg	ttatgctgac	180
tccgttaaag	gtcgcttcac	tatctctaga	gacaactcta	agaatactct	ctacttgacg	240
atgaacagct	taagggctga	ggacactgca	gtctactatt	gtgcgagaga	actgggtagt	300
gggagctact	acccgggata	cttccagcac	tggggccagg	gcaccctggt	caccgtctca	360
agcgctcca	ccaagggccc	atcggtcttc	ccg			393

&lt;210&gt; 50

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 50

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cctggtaaag	gtttggagtg	ggtttcttct	atctattctt	ctggtgggtt	tacttggtat	180
gctgactccg	ttaaaggctg	cttcactatc	tctagagaca	actctaagaa	tactctctac	240
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ggtagctggg	gccagggaac	cctggtcacc	gtctcaagcg	cctccaccaa	gggcccacg	360
gtcttccc						369

&lt;210&gt; 51

&lt;211&gt; 420

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 51

gaagttcaat	tgttagagtc	tggtggcggt	cttgttcagc	ctggtgggtc	tttacgtctt	60
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attggacgat	attttgactg	gttttttaggg	aactactact	actacggtat	ggacgtctgg	360
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&lt;210&gt; 52

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 52

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acaatggtca	ccgtctcaag	cgctccacc	aaggggcccat	cggtcttccc	g	411

&lt;210&gt; 53

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 53

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gctgcccc 369

<210> 54

<211> 396

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 54

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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gaagacgtat	300
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<210> 55

<211> 396

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 55

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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagattaggt	300
ggtaactccc	actactacta	cggtatggac	gtctggggcc	aagggaaccac	ggtcaccgtc	360
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<210> 56

<211> 396

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 56

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cctggtaaag	gtttgagtg	ggtttcttat	atctcttctt	ctggtggcaa	gactatgtat	180
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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagattaggt	300
ggtaactccc	actactacta	cggtatggac	gtctggggcc	aagggaaccac	ggtcaccgtc	360
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<210> 57

<211> 390

<212> DNA



<213> Unknown

<220>

<223> Heavy Chain nucleic acid sequence

<400> 57

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gggacccggg	gtgactactg	gggccagggg	accctgggtc	ccgtctcaag	cgctccacc	360
aagggcccat	cggtcttccc	gctagcacc				390

<210> 58

<211> 351

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 58

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tgactccggt	aaaggctcgt	tactatctc	tagagacaac	tctaagaata	ctctctactt	240
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ctattggtat	ggttcgggga	gctattacta	ctttgactac	tggggccagg	g	351

<210> 59

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 59

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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagtgacttt	300
ggtagctggg	gccaggggaa	cctgggtcacc	gtctcaagcg	cctccaccaa	gggcccatcg	360
gtcttcccg						369

<210> 60

<211> 396

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy Chain nucleic acid sequence

<400> 60

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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagagtaagg	300
gcgcccggct	actactacta	cggtatggac	gtctggggcc	aagggaccac	ggtcaccgtc	360
tcaagcgct	ccaccaaggg	cccatcggtc	ttcccc			396

&lt;210&gt; 61

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 61

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gctgactccg	ttaaagggtcg	cttcactatc	tctagagaca	actttaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagagtaagg	300
gcgcccggct	actactacta	cggtatggac	gtctggggcc	aagggaccac	ggtcaccgtc	360
tcaagcgct	ccaccaaggg	cccatcggtc	ttcccc			396

&lt;210&gt; 62

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 62

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ctggtaaaag	tttgagtg	gtttcttcta	tctatccttc	tggtggccat	actgggttatg	180
ctgactccgt	ttaaagggtcg	ttcactatct	ctagagacaa	ctctaagaat	actctctact	240
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gatattgtag	tagtaccagc	tgctatgttg	actactgggg	ccaggggaacc	c	351

&lt;210&gt; 63

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 63

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cctggtaaag	gtttggagtg	ggtttcttat	atctatcctt	ctgggtggcta	tactcgttat	180
gctgactccg	ttaaagggtcg	cttcactatc	tctagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagagcccgc	300
gggcatagca	gcagctggta	caatcattac	tactactact	acatggacgt	ctggggcaaaa	360
gggaccacgg	tcaccgtctc	aagcgcctcc	accaagggcc	catcgggtctt	cccg	414

<210> 64  
 <211> 393  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain nucleic acid sequence

<400> 64  
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 cctggtaaag gtttggagtg ggtttctatc tatccttctg gtggcggtac ttcttatgct 180  
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 cagatgaaca gcttaagggc tgaagacact gcagtctact attgtgagag agaaacaagt 300  
 ggctgggtata gggatcgctg gttagacccc tggggccagg gaaccctggt caccgtctca 360  
 agcgctcca ccaagggccc atcgggtcttc ccg 393

<210> 65  
 <211> 384  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain nucleic acid sequence

<400> 65  
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 cctggtaaag gtttggagtg ggtttcttat atctctcctt ctggtggcta tactgcttat 180  
 gctgactccg ttaaagggtc cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatgta 300  
 gtggctgggc cgtttgacta ctggggccag ggaaccctgg tcaccgtctc aagcgctccc 360  
 accaagggcc catcgggtctt cccg 384

<210> 66  
 <211> 393  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain nucleic acid sequence

<400> 66  
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 gcgggtagca gtggctggta ctctgactac tggggccagg gaaccctggt caccgtctca 360  
 agcgctcca ccaagggccc atcgggtcttc ccg 393

<210> 67  
 <211> 393  
 <212> DNA  
 <213> Artificial Sequence

<220>

## &lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 67

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cctggtaaag	gtttgagtg	ggtttctcgt	atctatcctt	ctggtggcca	tacttggtat	180
gctgactccg	ttaaaggctg	cttcactatc	tctagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagacatagg	300
gcgggtagca	gtggctggta	ctctgactac	tggggccagg	gaaccctggg	caccgtctca	360
agcgctcca	ccaagggcc	atcggtcttc	ccg			393

&lt;210&gt; 68

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

## &lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 68

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cctggtaaag	gtttgagtg	ggtttctggt	atcggtcctt	ctggtggcgg	tactcagtat	180
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catagcagca	gctggtacgg	tgggggagcc	cactactacg	gtatggacgt	ctggggccaa	360
gggaccacgg	tcaccgtctc	aagcgctcc	accaagggcc	catcggtctt	ccc	414

&lt;210&gt; 69

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

## &lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 69

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cctggtaaag	gtttgagtg	ggtttctggt	atcggtcctt	ctggtggcgg	tactcagtat	180
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catagcagca	gctggtacgg	tgggggagcc	cactactacg	gtatggacgt	ctggggccaa	360
gggaccacgg	tcaccgtctc	aagcgctcc	accaagggcc	catcggtctt	ccc	414

&lt;210&gt; 70

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

## &lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 70

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tcttgcgctg	cttccggatt	cactttctct	ccttaccgta	tggattgggt	tcgccaagct	120
cctggtaaag	gtttgagtg	ggtttcttat	atctatcctt	ctggtggcctt	tactccttat	180

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acgggatacc	gctactacta	cggtatggac	gtctggggcc	aaggggaccac	ggtcaccgtc	360
tcaagcgcct	ccaccaaggg	cccacggtc	ttcccc			396

&lt;210&gt; 71

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 71

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ggtaaagggt	tggagtgggt	ttcttatatc	tcttcttctg	gtggcattac	tacttatgct	180
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cagatgaaca	gcttaagggc	tgaggacact	gcagtctact	attgtgagag	agacccgact	300
tacgattttt	ggagtgggta	ttactactac	tactacatgg	acgtctgggg	caaagggacc	360
acggtcaccg	tctcaagcgc	ctccaccaag	ggcccatcgg	tcttcccc		408

&lt;210&gt; 72

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 72

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ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagacgggta	300
ggatattgta	gtggtggtag	ctgctactac	tactactact	acatggacgt	ctggggcaaa	360
gggaccacgg	tcaccgtctc	aagcgcctcc	accaagggcc	catcgggtctt	ccc	414

&lt;210&gt; 73

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 73

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&lt;210&gt; 74

<211> 393  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain nucleic acid sequence

<400> 74  
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 agcgctcca ccaagggcc atcgggtctc ccg 393

<210> 75  
 <211> 405  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain nucleic acid sequence

<400> 75  
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 tcttgcgctg cttccggatt cactttctct cagtacatga tgacttgggt tcgccaagct 120  
 cctggtaaag gtttggagtg ggtttcttat atcggttctt ctggtggcca gactaagtat 180  
 gctgactccg ttaaagggtc cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagggatcca 300  
 ggggtagcag tggctgggta ctactactac ggtatggacg tctggggcca agggaccacg 360  
 gtcaccgtct caagcgctc caccaagggc ccacgggtct tcccc 405

<210> 76  
 <211> 411  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain nucleic acid sequence

<400> 76  
 gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtgggtc tttagctctt 60  
 tcttgcgctg cttccggatt cactttctct cagtacaata tgccttgggt tcgccaagct 120  
 cctggtaaag gtttggagtg ggtttcttct atcgttcctt ctggtggctt tactgcttat 180  
 gctgactccg ttaaagggtc cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagtcgat 300  
 tgtagtggtg gtagctgcta ccgggggtccc caaaactact ttgactactg gggccagggg 360  
 accctggtca ccgtctcaag cgcctccacc aaggggcccat cggctcttccc g 411

<210> 77  
 <211> 351  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain nucleic acid sequence

<400> 77  
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtggttc tttacgtctt 60  
tcttgcgctg cttccggatt cactttctct atgtactata tgttttgggt tcgccaagct 120  
cctggtaagg tttggagtgg gtttctgtta tcgtttcttc tggtaggact actgagtatg 180  
ctgactccgt taaaggtcgc ttcactatct cttagagaaa ctctaagaat actctctact 240  
tgcagatgaa cagcttaagg gctgaggaca ctgcagtcta ctattgtgcg agagggggat 300  
attgtagtgg tggcaggtgt tacacctggc tcgaagacta ctggggccag g 351

<210> 78  
<211> 110  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Light Chain amino acid sequence

<400> 78  
Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15  
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Ser Asn  
20 25 30  
Thr Val Thr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45  
Ile Tyr Ser Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60  
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80  
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asn Thr Leu  
85 90 95  
Arg Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 79  
<211> 132  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Heavy Chain amino acid sequence  
  
<400> 79  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30  
Arg Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ser Tyr Ile Tyr Pro Ser Gly Gly Phe Thr Pro Tyr Ala Asp Ser Val  
50 55 60  
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Phe Tyr  
65 70 75 80  
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95  
Ala Lys Gly Ser Thr Gly Tyr Arg Tyr Tyr Tyr Gly Met Asp Val Trp  
100 105 110  
Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro

115 120 125  
 Ser Val Phe Pro  
 130

<210> 80  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 80  
 Ser Gly Ser Ser Ser Asn Ile Glu Ser Asn Thr Val Thr  
 1 5 10

<210> 81  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 81  
 Ser Asp Asp Gln Arg Pro Ser  
 1 5

<210> 82  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 82  
 Ala Thr Trp Asp Asn Thr Leu Arg Gly Val Val  
 1 5 10

<210> 83  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 83  
 Pro Tyr Arg Met Asp  
 1 5

<210> 84  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence



<220>

<223> Synthetically generated peptide

<400> 84

Tyr Ile Tyr Pro Ser Gly Gly Phe Thr Pro Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 85

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 85

Gly Ser Thr Gly Tyr Arg Tyr Tyr Tyr Gly Met Asp Val  
 1 5 10

<210> 86

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 86

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
 1 5 10 15  
 Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Gln  
 20 25 30  
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45  
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60  
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80  
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln  
 85 90 95  
 Ala Leu His Thr Pro Pro Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110  
 Arg Thr Val Ala Ala Pro Ser Val  
 115 120

<210> 87

<211> 132

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 87

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1				5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Trp	Tyr		
			20					25					30				
Trp	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val		
		35					40					45					
Ser	Ser	Ile	Tyr	Ser	Ser	Gly	Gly	Tyr	Thr	Ser	Tyr	Ala	Asp	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
65					70				75					80			
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
			85						90				95				
Ala	Arg	Val	Arg	Asp	Ile	Leu	Thr	Gly	Pro	Tyr	Tyr	Phe	Asp	Tyr	Trp		
			100					105					110				
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro		
		115					120					125					
Ser	Val	Phe	Pro														
	130																

<210> 88

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 88

Lys	Ser	Ser	Gln	Ser	Leu	Leu	Gln	Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp
1				5				10					15		

<210> 89

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 89

Leu	Gly	Ser	Asn	Arg	Ala	Ser
1				5		

<210> 90

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 90

Met	Gln	Ala	Leu	His	Thr	Pro	Pro
1				5			

<210> 91

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 91

Trp Tyr Trp Met Asn

1 5

<210> 92

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 92

Ser Ile Tyr Ser Ser Gly Gly Tyr Thr Ser Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 93

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 93

Val Arg Asp Ile Leu Thr Gly Pro Tyr Tyr Phe Asp Tyr

1 5 10

<210> 94

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 94

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val

1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg His

20 25 30

Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu

35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Phe Gly Val Pro Ala Arg Phe Ser

50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln

65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Phe Pro

85 90 95

Pro Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala

100 105 110  
Ala Pro Ser Val  
115

<210> 95  
<211> 132  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Heavy Chain amino acid sequence

<400> 95  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30  
Asp Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ser Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val  
50 55 60  
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80  
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95  
Ala Arg Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val Trp  
100 105 110  
Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro  
115 120 125  
Ser Val Phe Pro  
130

<210> 96  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetically generated peptide

<400> 96  
Arg Ala Ser Gln Gly Ile Arg His Tyr Leu Gly  
1 5 10

<210> 97  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetically generated peptide

<400> 97  
Ala Ala Ser Ser Leu Gln Phe  
1 5

<210> 98

<211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 98  
 Leu Gln His Asn Ser Phe Pro Pro Ala  
 1 5

<210> 99  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 99  
 Pro Tyr Asp Met Trp  
 1 5

<210> 100  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 100  
 Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 101  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 101  
 Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val  
 1 5 10

<210> 102  
 <211> 116  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

&lt;400&gt; 102

```

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
 1           5           10           15
Gly Asp Arg Ile Ala Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Thr
          20           25           30
Trp Leu Ala Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Lys Leu Leu
          35           40           45
Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
          50           55           60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65          70          75          80
Pro Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ala Asp Ser Phe Pro
          85          90          95
Leu Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
          100         105         110
Ala Pro Ser Val
          115

```

&lt;210&gt; 103

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

Heavy Chain amino acid sequence

Heavy Chain amino acid sequence

Heavy Chain amino acid sequence

Heavy Chain amino acid sequence

&lt;400&gt; 103

```

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
          20           25           30
Ala Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35           40           45
Ser Tyr Ile Ser Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val
          50           55           60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65          70          75          80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
          85          90          95
Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
          100         105         110
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
          115         120

```

&lt;210&gt; 104

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 104

Arg Ala Ser Gln Gly Ile Ser Thr Trp Leu Ala  
1 5 10

<210> 105

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 105

Ala Ala Ser Thr Leu Gln Ser  
1 5

<210> 106

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 106

Gln Gln Ala Asp Ser Phe Pro Leu Thr  
1 5

<210> 107

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 107

Asn Tyr Ala Met Asp  
1 5

<210> 108

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 108

Tyr Ile Ser Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 109  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 109  
 Asp Phe Gly Ser  
 1

<210> 110  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 110  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro  
 1 5 10 15  
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Ser  
 20 25 30  
 Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu  
 35 40 45  
 Leu Ile Tyr Ala Ala Ala Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe  
 50 55 60  
 Ser Gly Ile Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu  
 65 70 75 80  
 Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp  
 85 90 95  
 Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val  
 100 105 110  
 Ala Ala Pro Ser Val  
 115

<210> 111  
 <211> 131  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 111  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
 20 25 30  
 His Met Glu Trp Val Arg Gln Ala His Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Tyr Ile Ser Pro Ser Gly Gly Lys Thr Leu Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80



Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	His	Leu	Gly	Tyr	Gly	Ser	Gly	Ser	Tyr	Phe	Asp	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120						125		
Val	Phe	Pro													
		130													

<210> 112  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400>	112										
Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Ser	Tyr	Leu	Ala
1				5					10		

<210> 113  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400>	113					
Ala	Ala	Ala	Ser	Arg	Ala	Thr
1				5		

<210> 114  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400>	114							
Gln	Gln	Arg	Ser	Asn	Trp	Pro	Leu	Thr
1				5				

<210> 115  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400>	115			
Arg	Tyr	His	Met	Glu
1			5	

<210> 116  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 116  
 Tyr Ile Ser Pro Ser Gly Gly Lys Thr Leu Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 117  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 117  
 His Leu Gly Tyr Gly Ser Gly Ser Tyr Phe Asp Tyr  
 1 5 10

<210> 118  
 <211> 116  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 118  
 Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15  
 Thr Ala Thr Ile Ile Cys Ser Gly Asp Lys Leu Gly Asp Lys Tyr Val  
 20 25 30  
 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr  
 35 40 45  
 Glu Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Ile Ser Gly Ser  
 50 55 60  
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80  
 Asp Asp Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Arg Ser Thr Asp His  
 85 90 95  
 Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gln Pro Lys  
 100 105 110  
 Ala Asn Pro Thr  
 115

<210> 119  
 <211> 131  
 <212> PRT  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 119

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr
			20					25					30		
Arg	Met	Pro	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Tyr	Ser	Ser	Gly	Gly	Ile	Thr	Gln	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90				95		
Ala	Arg	Ser	Arg	Ser	Tyr	Tyr	Gly	Ser	Gly	Ser	Ser	Arg	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro													
		130													

&lt;210&gt; 120

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetically generated peptide

&lt;400&gt; 120

Ser	Gly	Asp	Lys	Leu	Gly	Asp	Lys	Tyr	Val	Ala
1			5				10			

&lt;210&gt; 121

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetically generated peptide

&lt;400&gt; 121

Glu	Asp	Asn	Lys	Arg	Pro	Ser
1			5			

&lt;210&gt; 122

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetically generated peptide

&lt;400&gt; 122

Gln	Ala	Trp	Asp	Arg	Ser	Thr	Asp	His	Tyr	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10

<210> 123  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 123  
 Asn Tyr Arg Met Pro  
 1 5

<210> 124  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 124  
 Tyr Ile Tyr Ser Ser Gly Gly Ile Thr Gln Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 125  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 125  
 Ser Arg Ser Tyr Tyr Gly Ser Gly Ser Ser Arg Tyr  
 1 5 10

<210> 126  
 <211> 108  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Synthetically generated peptide

<223> Light Chain amino acid sequence

<400> 126  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Phe Ser Ala Ser Thr  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser  
 20 25 30  
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
 35 40 45

```

Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Lys Phe Ser
 50                      55                      60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65                      70                      75                      80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro
                      85                      90                      95
Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
                100                      105

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<210> 127
<211> 123
<212> PRT
<213> Artificial Sequence

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<220>
<223> Heavy Chain amino acid sequence

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<400> 127
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1                      5                      10                      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
                20                      25                      30
Thr Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
                35                      40                      45
Ser Ser Ile Tyr Ser Ser Gly Gly Phe Thr Trp Tyr Ala Asp Ser Val
                50                      55                      60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                      70                      75                      80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                      90                      95
Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                100                      105                      110
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
                115                      120

```

```

<210> 128
<211> 11
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Synthetically generated peptide

```

```

<400> 128
Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala
 1                      5                      10

```

```

<210> 129
<211> 7
<212> PRT
<213> Artificial Sequence

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<220>
<223> Synthetically generated peptide

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<400> 129
Ala Ala Ser Thr Leu Gln Ser

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1           5

<210> 130
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 130
Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1           5

<210> 131
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 131
Trp Tyr Thr Met Val
1           5

<210> 132
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 132
Ser Ile Tyr Ser Ser Gly Gly Phe Thr Trp Tyr Ala Asp Ser Val Lys
1           5           10           15
Gly

<210> 133
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 133
Asp Phe Gly Ser
1

<210> 134
<211> 116
<212> PRT
<213> Artificial Sequence

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&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

&lt;400&gt; 134

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Tyr	Ala	Ser	Val
1				5				10						15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn
			20					25					30		
Glu	Leu	Gly	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Gln	Arg	Leu
		35					40					45			
Ile	Tyr	Asp	Ala	Ser	Thr	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Gly	Gly	Ser	Arg	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Glu
65					70				75					80	
Pro	His	Asp	Phe	Gly	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Ala	Ser	Tyr	Pro
				85				90					95		
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala
			100					105					110		
Ala	Pro	Ser	Val												
			115												

&lt;210&gt; 135

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 135

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Tyr
			20					25					30		
Lys	Met	Pro	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35				40						45			
Ser	Ser	Ile	Trp	Ser	Ser	Gly	Gly	Thr	Thr	Glu	Tyr	Ala	Asp	Ser	Val
	50					55				60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65				70				75						80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Glu	Glu	Ile	Gly	Arg	Tyr	Phe	Asp	Trp	Phe	Leu	Gly	Asn	Tyr
			100					105					110		
Tyr	Tyr	Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val
		115				120						125			
Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro				
		130				135					140				

&lt;210&gt; 136

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

<400> 136  
 Arg Ala Ser Gln Gly Ile Arg Asn Glu Leu Gly  
           1                  5                  10

<210> 137  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 137  
 Asp Ala Ser Thr Leu Gln Ser  
           1                  5

<210> 138  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 138  
 Gln Gln Tyr Ala Ser Tyr Pro Leu Thr  
           1                  5

<210> 139  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 139  
 Asp Tyr Lys Met Pro  
           1                  5

<210> 140  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 140  
 Ser Ile Trp Ser Ser Gly Gly Thr Thr Glu Tyr Ala Asp Ser Val Lys  
           1                  5                  10                  15  
 Gly

<210> 141  
 <211> 21  
 <212> PRT



<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 141

Glu	Glu	Ile	Gly	Arg	Tyr	Phe	Asp	Trp	Phe	Leu	Gly	Asn	Tyr	Tyr	Tyr
1				5					10					15	
Tyr	Gly	Met	Asp	Val											
				20											

<210> 142

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 142

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		
Phe	Val	Tyr	Trp	Tyr	His	His	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Arg	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50				55						60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Arg
65					70					75				80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
			85					90						95	
Ser	Gly	Val	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	Gln
			100					105					110		
Pro	Lys	Ala	Ala	Pro	Ser										
			115												

<210> 143

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 143

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Gln	Tyr
			20					25					30		
Lys	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35				40						45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Tyr	Thr	Ala	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys

				85					90					95					
Ala	Arg	Asp	Val	Val	Ala	Gly	Pro	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr				
			100					105					110						
Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro				
		115					120					125							

<210> 144  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 144  
 Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Phe Val Tyr  
 1 5 10

<210> 145  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 145  
 Arg Asn Asn Gln Arg Pro Ser  
 1 5

<210> 146  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 146  
 Ala Ala Trp Asp Asp Ser Leu Ser Gly Val Val  
 1 5 10

<210> 147  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 147  
 Gln Tyr Lys Met Asn  
 1 5

<210> 148  
 <211> 17  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 148

Tyr Ile Ser Pro Ser Gly Gly Tyr Thr Ala Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 149

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 149

Asp Val Val Ala Gly Pro Phe Asp Tyr  
 1 5

<210> 150

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 150

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Asn  
 20 25 30  
 Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Arg Ala Pro Lys Ser Leu  
 35 40 45  
 Ile Tyr Gly Ala Ser Ser Leu Gln Thr Gly Val Pro Ser Lys Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Leu Gln  
 65 70 75 80  
 Pro Glu Asp Val Ala Thr Tyr Tyr Cys His Gln Tyr Asn His Tyr Pro  
 85 90 95  
 Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala  
 100 105 110  
 Ala Pro Ser Val  
 115

<210> 151

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 151  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr  
 20 25 30  
 Pro Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Trp Ile Ser Pro Ser Gly Gly Lys Thr Val Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Lys Asp Cys Arg Gly Gly Cys Ser Gly Gly Ser Trp Gly Gln Gly  
 100 105 110  
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
 115 120 125  
 Pro

<210> 152  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 152  
 Arg Ala Ser Gln Asp Ile Ser Asn Tyr Leu Ala  
 1 5 10

<210> 153  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 153  
 Gly Ala Ser Ser Leu Gln Thr  
 1 5

<210> 154  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 154  
 His Gln Tyr Asn His Tyr Pro Pro Thr  
 1 5

<210> 155

<211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 155  
 Lys Tyr Pro Met Phe  
 1 5

<210> 156  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 156  
 Trp Ile Ser Pro Ser Gly Gly Lys Thr Val Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 157  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 157  
 Asp Cys Arg Gly Gly Cys Ser Gly Gly Ser  
 1 5 10

<210> 158  
 <211> 116  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 158  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro  
 1 5 10 15  
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asp Val Asn Arg  
 20 25 30  
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Arg Leu Leu  
 35 40 45  
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Ile Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr His Asn Trp Pro

				85					90					95			
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala		
			100					105						110			
Ala	Pro	Ser	Val														
			115														

<210> 159  
 <211> 123  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 159																	
Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1				5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Tyr		
			20					25					30				
Ser	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val		
		35				40						45					
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Met	Thr	Lys	Tyr	Ala	Asp	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
65					70				75					80			
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
				85				90					95				
Ala	Asn	Thr	Leu	Gly	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser		
			100					105					110				
Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro							
			115				120										

<210> 160  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 160																	
Arg	Ala	Ser	Gln	Asp	Val	Asn	Arg	Tyr	Leu	Ala							
1				5					10								

<210> 161  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 161																	
Gly	Ala	Ser	Thr	Arg	Ala	Thr											
1				5													

<210> 162

<211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 162  
 Gln Gln Tyr His Asn Trp Pro Leu Thr  
 1 5

<210> 163  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 163  
 Arg Tyr Ser Met Asn  
 1 5

<210> 164  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 164  
 Tyr Ile Ser Pro Ser Gly Gly Met Thr Lys Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 165  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 165  
 Thr Leu Gly Tyr  
 1

<210> 166  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

&lt;400&gt; 166

```

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1           5           10           15
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr
          20           25           30
Asp Tyr Val Ser Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu
      35           40           45
Ile Ile Tyr Asp Val Thr Ser Arg Pro Ser Gly Val Ser Ser His Phe
 50           55           60
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65           70           75           80
Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Gly
          85           90           95
Ser Thr Arg Tyr Val Phe Gly Pro Gly Thr Lys Val Thr Val Leu Gly
          100           105           110
Gln Pro Lys Ala Asn Pro Thr
          115

```

&lt;210&gt; 167

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 167

```

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr
          20           25           30
Tyr Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
      35           40           45
Ser Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val
 50           55           60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65           70           75           80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
          85           90           95
Ala Arg His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr Trp Gly
          100           105           110
Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
          115           120           125
Val Phe Pro
          130

```

&lt;210&gt; 168

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

&lt;400&gt; 168

```

Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr Asp Tyr Val Ser
 1           5           10

```



<210> 169  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 169  
 Asp Val Thr Ser Arg Pro Ser  
 1 5

<210> 170  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 170  
 Ser Ser Tyr Thr Ser Gly Ser Thr Arg Tyr Val  
 1 5 10

<210> 171  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 171  
 Asp Tyr Tyr Met Arg  
 1 5

<210> 172  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 172  
 Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 173  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 173

His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr  
1 5 10

<210> 174

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 174

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15  
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn  
20 25 30  
Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Glu Ala Pro Lys Ser Leu  
35 40 45  
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Ser Ser Asn Phe Ser  
50 55 60  
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80  
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr His Arg Tyr Pro  
85 90 95  
Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala  
100 105 110  
Ala Pro Ser Val  
115

<210> 175

<211> 131

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 175

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr  
20 25 30  
Asn Met Pro Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ser Tyr Ile Ser Ser Ser Gly Thr Gly Tyr Ala Asp Ser Val Lys Gly  
50 55 60  
Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln  
65 70 75 80  
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg  
85 90 95  
Glu Leu Gly Ser Gly Ser Tyr Tyr Pro Gly Tyr Phe Gln His Trp Gly  
100 105 110  
Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser  
115 120 125

Val Phe Pro  
130

<210> 176  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Light Chain amino acid sequence

<400> 176  
Arg Ala Ser Gln Asp Ile Arg Asn Tyr Leu Ala  
1 5 10

<210> 177  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Light Chain amino acid sequence

<400> 177  
Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 178  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Light Chain amino acid sequence

<400> 178  
Gln Gln Tyr His Arg Tyr Pro Arg Thr  
1 5

<210> 179  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Heavy Chain amino acid sequence

<400> 179  
Ala Tyr Asn Met Pro  
1 5

<210> 180  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 180

Tyr Ile Ser Ser Ser Gly Thr Gly Tyr Ala Asp Ser Val Lys Gly Arg  
1 5 10 15

<210> 181

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 181

Glu Leu Gly Ser Gly Ser Tyr Tyr Pro Gly Tyr Phe Gln His  
1 5 10

<210> 182

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 182

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Tyr Val Ser Pro  
1 5 10 15  
Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Arg  
20 25 30  
Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
35 40 45  
Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser  
50 55 60  
Gly Ser Gly Ser Arg Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80  
Ser Glu Asp Phe Ala Val Tyr His Cys Gln Gln Tyr Asn Ser Arg Pro  
85 90 95  
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala  
100 105 110  
Ala Pro Ser Val  
115

<210> 183

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 183

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr  
20 25 30

Phe	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Ser	Ile	Tyr	Pro	Ser	Gly	Gly	Tyr	Thr	Met	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Lys	Thr	Leu	Tyr
65					70				75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Ser	Asp	Phe	Gly	Ser	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser
		100						105					110		
Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro					
		115					120								

<210> 184

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 184

Arg	Ala	Ser	Gln	Ser	Val	Ser	Arg	Asn	Leu	Ala
1			5						10	

<210> 185

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 185

Gly	Ala	Ser	Thr	Arg	Ala	Thr
1			5			

<210> 186

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 186

Gln	Gln	Tyr	Asn	Ser	Arg	Pro	Leu	Thr
1				5				

<210> 187

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 187

Trp Tyr Phe Met Asn  
1 5

<210> 188

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 188

Ser Ile Tyr Pro Ser Gly Gly Tyr Thr Met Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 189

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 189

Asp Phe Gly Ser  
1

<210> 190

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 190

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15  
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr  
20 25 30  
Asp Tyr Val Ser Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu  
35 40 45  
Ile Ile Tyr Asp Val Thr Ser Arg Pro Ser Gly Val Ser Ser His Phe  
50 55 60  
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80  
Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Gly  
85 90 95  
Ser Thr Arg Tyr Val Phe Gly Pro Gly Thr Lys Val Thr Val Leu Gly  
100 105 110  
Gln Pro Lys Ala Asn Pro Thr  
115

<210> 191

<211> 131  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 191  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr  
 20 25 30  
 Tyr Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr Trp Gly  
 100 105 110  
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser  
 115 120 125  
 Val Phe Pro  
 130

<210> 192  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 192  
 Thr Gly Thr Ser Ser Asp Val Gly Tyr Tyr Asp Tyr Val Ser  
 1 5 10

<210> 193  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 193  
 Asp Val Thr Ser Arg Pro Ser  
 1 5

<210> 194  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 194

Ser Ser Tyr Thr Ser Gly Ser Thr Arg Tyr Val  
1 5 10

<210> 195

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 195

Asp Tyr Tyr Met Arg  
1 5

<210> 196

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 196

Arg Ile Tyr Pro Ser Gly Gly His Thr Trp Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 197

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 197

His Arg Ala Gly Ser Ser Gly Trp Tyr Ser Asp Tyr  
1 5 10

<210> 198

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 198

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15  
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30



```

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
   35           40           45
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
   50           55           60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
  65           70           75           80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Arg
           85           90           95
Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
   100           105           110
Ala Pro Ser Val
      115

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<210> 199

<211> 137

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 199

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
  1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
   20           25           30
Phe Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
   35           40           45
Ser Tyr Ile Val Pro Ser Gly Gly Asn Thr Leu Tyr Ala Asp Ser Val
   50           55           60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
  65           70           75           80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
           85           90           95
Ala Arg Glu Glu Trp Asp Val Leu Leu Trp Phe Gly Glu Leu Ser Ala
   100           105           110
Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala
   115           120           125
Ser Thr Lys Gly Pro Ser Val Phe Pro
   130           135

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<210> 200

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 200

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Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
  1           5           10

```

<210> 201

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 201

Ala Ala Ser Ser Leu Gln Ser

1

5

<210> 202

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 202

Gln Gln Ser Tyr Ser Thr Arg Trp Thr

1

5

<210> 203

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 203

Thr Tyr Phe Met Arg

1

5

<210> 204

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 204

Tyr Ile Val Pro Ser Gly Gly Asn Thr Leu Tyr Ala Asp Ser Val Lys

1

5

10

15

Gly

<210> 205

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 205

Glu Glu Trp Asp Val Leu Leu Trp Phe Gly Glu Leu Ser Ala Ala Phe

1

5

10

15

Asp Ile

<210> 206  
 <211> 116  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 206  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg His  
 20 25 30  
 Tyr Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu  
 35 40 45  
 Ile Tyr Ala Ala Ser Ser Leu Gln Phe Gly Val Pro Ala Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Phe Pro  
 85 90 95  
 Pro Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala  
 100 105 110  
 Ala Pro Ser Val  
 115

<210> 207  
 <211> 132  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 207  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
 20 25 30  
 Asp Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val Trp  
 100 105 110  
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro  
 115 120 125  
 Ser Val Phe Pro  
 130

<210> 208  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 208  
 Arg Ala Ser Gln Gly Ile Arg His Tyr Leu Gly  
           1                  5                  10

<210> 209  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 209  
 Ala Ala Ser Ser Leu Gln Phe  
           1                  5

<210> 210  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 210  
 Leu Gln His Asn Ser Phe Pro Pro Ala  
           1                  5

<210> 211  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 211  
 Pro Tyr Asp Met Trp  
           1                  5

<210> 212  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 212

Tyr Ile Ser Ser Ser Gly Gly Lys Thr Met Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 213  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 213  
 Leu Gly Gly Asn Ser His Tyr Tyr Tyr Gly Met Asp Val  
 1 5 10

<210> 214  
 <211> 118  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 214  
 Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Ala Thr Pro Gly Gln  
 1 5 10 15  
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Arg Asn  
 20 25 30  
 Leu Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60  
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg  
 65 70 75 80  
 Ser Glu Glu Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
 85 90 95  
 Ser Gly Trp Val Phe Gly Gly Gly Thr Arg Leu Thr Val Leu Gly Gln  
 100 105 110  
 Pro Lys Ala Ala Pro Ser  
 115

<210> 215  
 <211> 131  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 215  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr  
 20 25 30  
 His Met Arg Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

	35					40						45					
Ser	Ile	Tyr	Pro	Ser	Gly	Gly	Val	Thr	Ser	Tyr	Ala	Asp	Ser	Val	Lys		
	50					55					60						
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu		
65					70					75					80		
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala		
				85					90					95			
Arg	Glu	Thr	Ser	Gly	Trp	Tyr	Arg	Asp	Arg	Trp	Phe	Asp	Pro	Trp	Gly		
			100					105					110				
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser			
		115					120				125						
Val	Phe	Pro															
	130																

<210> 216

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 216

Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Arg	Asn	Leu	Val	Tyr
1				5					10			

<210> 217

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 217

Ser	Asn	Asn	Gln	Arg	Pro	Ser
1			5			

<210> 218

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 218

Ala	Ala	Trp	Asp	Asp	Ser	Leu	Ser	Gly	Trp	Val
1				5					10	

<210> 219

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 219

Trp Tyr His Met Arg  
1 5

<210> 220

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 220

Ile Tyr Pro Ser Gly Gly Val Thr Asp Tyr Ala Asp Ser Val Lys Gly  
1 5 10 15

<210> 221

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 221

Glu Thr Ser Gly Trp Tyr Arg Asp Arg Trp Phe Asp Pro  
1 5 10

<210> 222

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 222

Gln Ser Val Leu Thr Gln Thr Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15  
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Asp Tyr  
20 25 30  
Glu Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Val  
35 40 45  
Ile Leu Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe  
50 55 60  
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80  
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Tyr Arg Lys Ser  
85 90 95  
Ser Thr Pro Tyr Val Phe Gly Thr Gly Thr Lys Val Ser Val Leu Gly  
100 105 110  
Gln Pro Lys Ala Asn Pro Thr  
115

<210> 223

<211> 138

<212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 223  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr  
 20 25 30  
 His Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Val Ile Val Pro Ser Gly Gly Gly Thr Gln Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Gly His Ser Ser Ser Trp Tyr Gly Gly Gly Ala His Tyr  
 100 105 110  
 Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
 115 120 125  
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
 130 135

<210> 224  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 224  
 Thr Gly Thr Ser Ser Asp Ile Gly Asp Tyr Glu Tyr Val Ser  
 1 5 10

<210> 225  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 225  
 Tyr Glu Val Ser Asn Arg Pro Ser  
 1 5

<210> 226  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence



<400> 226  
 Gly Ser Tyr Arg Lys Ser Ser Thr Pro Tyr Val  
     1                    5                    10

<210> 227  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 227  
 Tyr Tyr His Met Trp  
     1                    5

<210> 228  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 228  
 Val Ile Val Pro Ser Gly Gly Gly Thr Gln Tyr Ala Asp Ser Val Lys  
     1                    5                    10                    15  
 Gly

<210> 229  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 229  
 Asp Gly His Ser Ser Ser Trp Tyr Gly Gly Gly Ala His Tyr Tyr Gly  
     1                    5                    10                    15  
 Met Asp Val

<210> 230  
 <211> 116  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 230  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro  
     1                    5                    10                    15  
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser

```

      20      25      30
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
      35      40      45
Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
      50      55      60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu
      65      70      75      80
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ser Ser Ser Pro
      85      90      95
Val Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala
      100      105      110
Ala Pro Ser Val
      115

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<210> 231

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 231

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
  1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
      20      25      30
Arg Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
      35      40      45
Ser Gly Ile Val Pro Ser Gly Gly Lys Thr Phe Tyr Ala Asp Ser Val
      50      55      60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
      65      70      75      80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
      85      90      95
Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser
      100      105      110
Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
      115      120

```

<210> 232

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 232

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Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala
  1      5      10

```

<210> 233

<211> 7

<212> PRT

<213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 233  
 Gly Ala Ser Ser Arg Ala Thr  
 1 5

<210> 234  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 234  
 Gln Gln Tyr Ser Ser Ser Pro Val Thr  
 1 5

<210> 235  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 235  
 Ser Tyr Arg Met Asn  
 1 5

<210> 236  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 236  
 Gly Ile Val Pro Ser Gly Gly Lys Thr Phe Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 237  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 237  
 Asp Phe Gly Ser  
 1

<210> 238  
 <211> 116  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 238  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Ser Ser  
 20 25 30  
 Tyr Val Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ser Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60  
 Gly Ser Val Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Arg Thr Pro  
 85 90 95  
 Pro Phe Phe Gly Gln Gly Thr Lys Leu Glu Val Lys Arg Thr Val Ala  
 100 105 110  
 Ala Pro Ser Val  
 115

<210> 239  
 <211> 129  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 239  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Leu Tyr  
 20 25 30  
 Gln Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Gly Ile Val Ser Ser Gly Gly Leu Thr Gly Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg His Asn Arg Ala Ile Gly Thr Phe Asp Tyr Trp Gly Gln Gly  
 100 105 110  
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
 115 120 125  
 Pro

<210> 240  
 <211> 11  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 240

Arg Ala Ser Gln Arg Ile Ser Ser Tyr Val Asn  
1 5 10

<210> 241

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 241

Ser Ala Ser Ser Leu Gln Ser  
1 5

<210> 242

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 242

Gln Gln Ser Tyr Arg Thr Pro Pro Phe  
1 5

<210> 243

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 243

Leu Tyr Gln Met Leu  
1 5

<210> 244

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 244

Gly Ile Val Ser Ser Gly Gly Leu Thr Gly Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 245  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 245  
 His Asn Arg Ala Ile Gly Thr Phe Asp Tyr  
 1 5 10

<210> 246  
 <211> 115  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 246  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro  
 1 5 10 15  
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Arg  
 20 25 30  
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
 35 40 45  
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro  
 85 90 95  
 Ser Phe Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110  
 Pro Ser Val  
 115

<210> 247  
 <211> 123  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 247  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
 20 25 30  
 Ser Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Trp Ile Ser Pro Ser Gly Gly Leu Thr Thr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 100 105 110  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
 115 120

<210> 248  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 248  
 Arg Ala Ser Gln Ser Val Ser Arg Tyr Leu Ala  
 1 5 10

<210> 249  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 249  
 Gly Ala Ser Thr Arg Ala Thr  
 1 5

<210> 250  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 250  
 Gln Gln Tyr Asn Asn Trp Pro Ser  
 1 5

<210> 251  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 251  
 Asn Tyr Ser Met Asp  
 1 5

<210> 252  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 252  
 Trp Ile Ser Pro Ser Gly Gly Leu Thr Thr Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 253  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 253  
 Asp Phe Gly Ser  
 1

<210> 254  
 <211> 124  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 254  
 Gln Ser Val Leu Thr Gln Pro Pro Tyr Ala Ser Ala Ser Leu Gly Ala  
 1 5 10 15  
 Ser Val Thr Leu Thr Cys Thr Leu Ser Ser Gly Tyr Ser Asn Tyr Lys  
 20 25 30  
 Val Asp Trp Tyr Gln Gln Arg Pro Gly Lys Gly Pro Gln Phe Val Met  
 35 40 45  
 Arg Val Gly Ser Gly Gly Ile Val Gly Ser Lys Gly Asp Gly Ile Pro  
 50 55 60  
 Asp Arg Phe Ser Val Leu Gly Ser Gly Leu Tyr Arg Tyr Leu Thr Ile  
 65 70 75 80  
 Lys Asn Ile Gln Glu Glu Asp Glu Ser Asp Tyr Tyr Cys Gly Ala Asp  
 85 90 95  
 His Gly Arg Gly Gly Thr Phe Val Trp Val Phe Gly Gly Gly Thr Lys  
 100 105 110  
 Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser  
 115 120

<210> 255  
 <211> 136  
 <212> PRT  
 <213> Artificial Sequence



&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 255

```

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1             5             10             15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Lys
      20             25             30
Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
      35             40             45
Tyr Ile Ser Ser Ser Gly Gly Ile Thr Thr Tyr Ala Asp Ser Val Lys
 50             55             60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65             70             75             80
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
      85             90             95
Arg Asp Pro Thr Tyr Asp Phe Trp Ser Gly Tyr Tyr Tyr Tyr Tyr Tyr
      100             105             110
Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Ala Ser
      115             120             125
Thr Lys Gly Pro Ser Val Phe Pro
      130             135

```

&lt;210&gt; 256

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

&lt;400&gt; 256

```

Thr Leu Ser Ser Gly Tyr Ser Asn Tyr Lys Val Asp
 1             5             10

```

&lt;210&gt; 257

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

&lt;400&gt; 257

```

Arg Val Gly Ser Gly Gly Ile Val Gly Ser Lys Gly Asp
 1             5             10

```

&lt;210&gt; 258

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

&lt;400&gt; 258

```

Gly Ala Asp His Gly Arg Gly Gly Thr Phe Val Trp Val

```

1 5 10

<210> 259  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 259  
 Ser Tyr Lys Met Met  
 1 5

<210> 260  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 260  
 Tyr Ile Ser Ser Ser Gly Gly Ile Thr Thr Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 261  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 261  
 Arg Asp Pro Thr Tyr Asp Phe Trp Ser Gly Tyr Tyr Tyr Tyr Tyr Tyr  
 1 5 10 15  
 Met Asp Val

<210> 262  
 <211> 118  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 262  
 Gln Ser Ala Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15  
 Arg Val Ser Ile Ser Cys Ser Gly Ser Ser Tyr Asn Ile Gly Val Tyr  
 20 25 30  
 Asp Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

```

Ile Tyr Thr Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50                      55                      60
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65                      70                      75                      80
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
                      85                      90                      95
Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly Gln
                      100                      105                      110
Pro Lys Ala Ala Pro Ser
                      115

```

<210> 263  
 <211> 137  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

```

<400> 263
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1                      5                      10                      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gln Tyr
                      20                      25                      30
Asn Met Pro Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
                      35                      40                      45
Ser Ser Ile Val Pro Ser Gly Gly Phe Thr Ala Tyr Ala Asp Ser Val
                      50                      55                      60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                      70                      75                      80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                      85                      90                      95
Ala Arg Val Asp Cys Ser Gly Gly Ser Cys Tyr Arg Gly Pro Gln Asn
                      100                      105                      110
Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
                      115                      120                      125
Ser Thr Lys Gly Pro Ser Val Phe Pro
                      130                      135

```

<210> 264  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

```

<400> 264
Ser Gly Ser Ser Tyr Asn Ile Gly Val Tyr Asp Val Tyr
 1                      5                      10

```

<210> 265  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 265

Thr Asn Asn Gln Arg Pro Ser  
1 5

<210> 266

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 266

Ala Ala Trp Asp Asp Ser Leu Ser Gly Trp Val  
1 5 10

<210> 267

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 267

Gln Tyr Asn Met Pro  
1 5

<210> 268

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 268

Ser Ile Val Pro Ser Gly Gly Phe Thr Ala Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 269

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 269

Val Asp Cys Ser Gly Gly Ser Cys Tyr Arg Gly Pro Gln Asn Tyr Phe  
1 5 10 15  
Asp Tyr

<210> 270  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 270  
 Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
 1 5 10 15  
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
 20 25 30  
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
 35 40 45  
 Met Ile Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe  
 50 55 60  
 Ser Gly Ser Lys Ser Asp Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 65 70 75 80  
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Tyr Arg Lys Ser  
 85 90 95  
 Ser Thr Pro Tyr Val Phe Gly Thr Gly Thr Lys Val Ser Val Leu Gly  
 100 105 110  
 Gln Pro Lys Ala Asn Pro Thr  
 115

<210> 271  
 <211> 135  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 271  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gln Tyr  
 20 25 30  
 Met Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Tyr Ile Gly Ser Ser Gly Gly Gln Thr Lys Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Pro Gly Val Ala Val Ala Gly Tyr Tyr Tyr Tyr Gly Met  
 100 105 110  
 Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr  
 115 120 125  
 Lys Gly Pro Ser Val Phe Pro  
 130 135

<210> 272  
 <211> 14

<212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 272  
 Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 1 5 10

<210> 273  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 273  
 Glu Val Ser Asn Arg Pro Ser  
 1 5

<210> 274  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 274  
 Gly Ser Tyr Arg Lys Ser Ser Thr Pro Tyr Val  
 1 5 10

<210> 275  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 275  
 Gln Tyr Met Met Thr  
 1 5

<210> 276  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 276  
 Tyr Ile Gly Ser Ser Gly Gly Gln Thr Lys Tyr Ala Asp Ser Val Lys  
 1 5 10 15

Gly

&lt;210&gt; 277

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 277

Asp	Pro	Gly	Val	Ala	Val	Ala	Gly	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp	Val
1				5				10						15	

&lt;210&gt; 278

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

&lt;400&gt; 278

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val
1				5				10						15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Gly	Ile	Ser	Arg
			20					25					30		
Trp	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Gly	Ala	Ser	Thr	Leu	Gln	Lys	Gly	Val	Pro	Ser	Arg	Phe	Thr
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Thr	Ser	Leu	Gln
65					70					75				80	
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Gly	Asn	Ser	Phe	Pro
				85					90					95	
Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg	Thr	Val	Ala
			100					105						110	
Ala	Pro	Ser	Val												
			115												

&lt;210&gt; 279

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 279

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Gly	Tyr
			20					25					30		
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35				40						45			
Ser	Val	Ile	Arg	Pro	Ser	Gly	Gly	Lys	Thr	Gly	Tyr	Ala	Asp	Ser	Val

50						55						60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Phe	Lys	Asn	Thr	Leu	Tyr		
65					70					75					80		
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
			85						90					95			
Ala	Arg	Val	Arg	Ala	Pro	Gly	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp	Val	Trp		
			100					105					110				
Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro		
		115					120					125					
Ser	Val	Phe	Pro														
		130															

<210> 280  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 280  
 Arg Ala Ser Arg Gly Ile Ser Arg Trp Leu Ala  
 1 5 10

<210> 281  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 281  
 Gly Ala Ser Thr Leu Gln Lys  
 1 5

<210> 282  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 282  
 Gln Gln Gly Asn Ser Phe Pro Phe Thr  
 1 5

<210> 283  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 283



Gly Tyr Trp Met Ser  
1 5

<210> 284  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Heavy Chain amino acid sequence

<400> 284  
Val Ile Arg Pro Ser Gly Gly Lys Thr Gly Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 285  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Heavy Chain amino acid sequence

<400> 285  
Val Arg Ala Pro Gly Tyr Tyr Tyr Tyr Gly Met Asp Val  
1 5 10

<210> 286  
<211> 119  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Light Chain amino acid sequence

<400> 286  
Gln Ser Val Leu Thr Gln Thr Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15  
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Asp Tyr  
20 25 30  
Glu Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Val  
35 40 45  
Ile Leu Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe  
50 55 60  
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80  
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Tyr Arg Lys Ser  
85 90 95  
Ser Thr Pro Tyr Val Phe Gly Thr Gly Thr Lys Val Ser Val Leu Gly  
100 105 110  
Gln Pro Lys Ala Asn Pro Thr  
115

<210> 287  
<211> 138

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 287

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Tyr	Tyr
			20					25					30		
His	Met	Trp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Val	Ile	Val	Pro	Ser	Gly	Gly	Gly	Thr	Gln	Tyr	Ala	Asp	Ser	Val
	50					55				60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70				75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Asp	Gly	His	Ser	Ser	Ser	Trp	Tyr	Gly	Gly	Gly	Ala	His	Tyr
			100					105					110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser
		115				120						125			
Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro						
	130					135									

<210> 288

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 288

Thr	Gly	Thr	Ser	Ser	Asp	Ile	Gly	Asp	Tyr	Glu	Tyr	Val	Ser
1				5					10				

<210> 289

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 289

Tyr	Glu	Val	Ser	Asn	Arg	Pro	Ser
1				5			

<210> 290

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 290  
 Gly Ser Tyr Arg Lys Ser Ser Thr Pro Tyr Val  
 1 5 10

<210> 291  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 291  
 Tyr Tyr His Met Trp  
 1 5

<210> 292  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 292  
 Val Ile Val Pro Ser Gly Gly Gly Thr Gln Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 293  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Heavy Chain amino acid sequence

<400> 293  
 Asp Gly His Ser Ser Ser Trp Tyr Gly Gly Gly Ala His Tyr Tyr Gly  
 1 5 10 15  
 Met Asp Val

<210> 294  
 <211> 116  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Light Chain amino acid sequence

<400> 294  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn

[illegible]

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<210> 295
<211> 132
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Heavy Chain amino acid sequence

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<400> 295
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1          5          10          15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe Tyr
          20          25          30
Gly Met Pro Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35          40          45
Ser Gly Ile Tyr Pro Ser Gly Gly Val Thr Arg Tyr Ala Asp Ser Val
 50          55          60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65          70          75          80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
          85          90          95
Ala Lys Thr Tyr Ser Ser Ser Trp Tyr Gly Trp Tyr Phe Asp Tyr Trp
          100          105          110
Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
          115          120          125
Ser Val Phe Pro
          130

```

```
<210> 296
<211> 11
<212> PRT
<213> Artificial Sequence
```

<220>  
<223> Light Chain amino acid sequence

<400> 296  
Arg Ala Ser Gln Gly Ile Arg Asn Asp Leu Gly  
1 5 10

```
<210> 297
<211> 7
<212> PRT
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<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 297

Gly Ala Ser Thr Leu Gln Ser

1 5

<210> 298

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Light Chain amino acid sequence

<400> 298

Leu Gln Asp Tyr Asn Tyr Pro Tyr Thr

1 5

<210> 299

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 299

Phe Tyr Gly Met Pro

1 5

<210> 300

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy Chain amino acid sequence

<400> 300

Gly Ile Tyr Pro Ser Gly Gly Val Thr Arg Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 301

<211> 13

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 301

Thr Tyr Ser Ser Ser Trp Tyr Gly Trp Tyr Phe Asp Tyr

1                      5                      10

<210> 302  
 <211> 117  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 302

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro
1				5					10					15	
Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Val	Ser	Ser
			20					25					30		
Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu
		35					40					45			
Leu	Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe
	50					55					60				
Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu
65					70					75				80	
Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Gly	Ser	Ser
				85					90					95	
Pro	Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val
			100					105						110	
Ala	Ala	Pro	Ser	Val											
				115											

<210> 303  
 <211> 130  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 303

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Phe	Tyr
			20					25					30		
Pro	Met	Pro	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Tyr	Ile	Ser	Pro	Ser	Gly	Gly	Asp	Thr	Thr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Phe	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90						95	
Ala	Arg	Gly	Gly	Ser	Tyr	Ser	Ser	Ser	Trp	Tyr	Gly	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val
		115					120					125			
Phe	Pro														
	130														

<210> 304

<211> 12  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 304  
 Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala  
 1 5 10

<210> 305  
 <211> 7  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 305  
 Gly Ala Ser Ser Arg Ala Thr  
 1 5

<210> 306  
 <211> 9  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 306  
 Gln Gln Tyr Gly Ser Ser Pro Trp Thr  
 1 5

<210> 307  
 <211> 5  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 307  
 Phe Tyr Pro Met Pro  
 1 5

<210> 308  
 <211> 17  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 308  
 Tyr Ile Ser Pro Ser Gly Gly Asp Thr Thr Tyr Ala Asp Ser Val Lys

1	5	10	15
Gly			

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<210> 309
<211> 11
<212> PRT
<213> Unknown
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<220>  
<223> Heavy Chain amino acid sequence

<400> 309  
Gly Gly Ser Tyr Ser Ser Ser Trp Tyr Gly Tyr  
1 5 10

<210>	310
<211>	116
<212>	PRT
<213>	Unknown

<220>  
<223> Light Chain amino acid sequence

<400>	310
Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val	
1                    5                    10                    15	
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Ile Ser Arg	
20                    25                    30	
Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu	
35                    40                    45	
Ile Tyr Gly Ala Ser Thr Leu Gln Lys Gly Val Pro Ser Arg Phe Thr	
50                    55                    60	
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln	
65                    70                    75                    80	
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Ser Phe Pro	
85                    90                    95	
Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala	
100                    105                    110	
Ala Pro Ser Val	
115	

<210>	311
<211>	132
<212>	PRT
<213>	Unknown

<220>  
<223> Heavy Chain amino acid sequence

<400> 311																
Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Gly	Tyr	
			20					25					30			
Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40						45			



Ser	Val	Ile	Arg	Pro	Ser	Gly	Gly	Lys	Thr	Gly	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Phe	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90				95		
Ala	Arg	Val	Arg	Ala	Pro	Gly	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp	Val	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro
	115						120					125			
Ser	Val	Phe	Pro												
	130														

<210> 312  
 <211> 11  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

Arg	Ala	Ser	Arg	Gly	Ile	Ser	Arg	Trp	Leu	Ala
1				5					10	

<210> 313  
 <211> 7  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

Gly	Ala	Ser	Thr	Leu	Gln	Lys
1				5		

<210> 314  
 <211> 9  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

Gln	Gln	Gly	Asn	Ser	Phe	Pro	Phe	Thr
1				5				

<210> 315  
 <211> 5  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

&lt;400&gt; 315

Gly Tyr Trp Met Ser  
 1 5

&lt;210&gt; 316

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 316

Val Ile Arg Pro Ser Gly Gly Lys Thr Gly Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

&lt;210&gt; 317

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Heavy Chain amino acid sequence

&lt;400&gt; 317

Val Arg Ala Pro Gly Tyr Tyr Tyr Tyr Gly Met Asp Val  
 1 5 10

&lt;210&gt; 318

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Light Chain amino acid sequence

&lt;400&gt; 318

Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
 1 5 10 15  
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
 20 25 30  
 Asn Tyr Val Ser Trp Tyr Gln Arg His Pro Gly Lys Ala Pro Lys Leu  
 35 40 45  
 Ile Ile Tyr Asp Val Thr Asn Arg Pro Ser Gly Ala Ser Arg His Phe  
 50 55 60  
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 65 70 75 80  
 Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Val Ser Phe Thr Asn Ser  
 85 90 95  
 Asn Thr Phe Val Phe Gly Ser Gly Thr Arg Val Thr Val Leu Gly Gln  
 100 105 110  
 Pro Lys Ala Asn Pro Thr  
 115

&lt;210&gt; 319

<211> 138  
 <212> PRT  
 <213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 319

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Leu	Tyr
			20					25					30		
His	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Val	Ile	Tyr	Pro	Ser	Gly	Gly	Gly	Thr	Pro	Tyr	Ala	Asp	Ser	Val
	50					55				60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Arg	Val	Gly	Tyr	Cys	Ser	Gly	Gly	Ser	Cys	Tyr	Tyr	Tyr	Tyr
			100					105					110		
Tyr	Tyr	Met	Asp	Val	Trp	Gly	Lys	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser
		115					120					125			
Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro						
			130				135								

<210> 320  
 <211> 14  
 <212> PRT  
 <213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 320

Thr	Gly	Thr	Ser	Ser	Asp	Val	Gly	Gly	Tyr	Asn	Tyr	Val	Ser
1				5					10				

<210> 321  
 <211> 6  
 <212> PRT  
 <213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 321

Asp	Val	Thr	Asn	Arg	Pro
1				5	

<210> 322  
 <211> 10  
 <212> PRT  
 <213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 322

Val Ser Phe Thr Asn Ser Asn Thr Phe Val  
1 5 10

<210> 323

<211> 5

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 323

Leu Tyr His Met Asp  
1 5

<210> 324

<211> 17

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 324

Val Ile Tyr Pro Ser Gly Gly Gly Thr Pro Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 325

<211> 19

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 325

Arg Val Gly Tyr Cys Ser Gly Gly Ser Cys Tyr Tyr Tyr Tyr Tyr Tyr  
1 5 10 15  
Met Asp Val

<210> 326

<211> 116

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 326

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser  
                   20                  25                  30  
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
                   35                  40                  45  
 Ile Tyr Asp Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser  
                   50                  55                  60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65                  70                  75                  80  
 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro  
                   85                  90                  95  
 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala  
                   100                  105                  110  
 Ala Pro Ser Val  
                   115

<210> 327

<211> 123

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 327

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1                  5                  10                  15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr  
                   20                  25                  30  
 Arg Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                   35                  40                  45  
 Ser Ser Ile Val Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val  
 50                  55                  60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65                  70                  75                  80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                   85                  90                  95  
 Ala Ser Asp Phe Gly Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
                   100                  105                  110  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
                   115                  120

<210> 328

<211> 11

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 328

Arg Ala Ser Gln Ser Val Arg Ser Tyr Leu Ala  
 1                  5                  10

<210> 329

<211> 7

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 329

Asp Ala Ser Thr Arg Ala Thr  
1 5

<210> 330

<211> 9

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 330

Gln Gln Tyr Asn Asn Trp Pro Pro Thr  
1 5

<210> 331

<211> 5

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 331

Trp Tyr Arg Met Asn  
1 5

<210> 332

<211> 17

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 332

Ser Ile Val Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys  
1 5 10 15  
Gly

<210> 333

<211> 4

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 333

Asp Phe Gly Ser  
1

<210> 334  
 <211> 123  
 <212> PRT  
 <213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 334

Phe	Tyr	Ser	His	Ser	Ala	Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Ala
1				5					10					15	
Ser	Gly	Thr	Pro	Gly	Gln	Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser
			20					25					30		
Ser	Asn	Ile	Gly	Ser	Asn	Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly
		35					40					45			
Thr	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Ser	Asn	Asn	Tyr	Arg	Pro	Ser	Gly
	50					55					60				
Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu
65					70				75						80
Ala	Ile	Ser	Gly	Leu	Gln	Ser	Asp	Asp	Glu	Ala	Glu	Tyr	Leu	Cys	Ala
				85				90						95	
Ala	Trp	Asp	Asp	Ser	Leu	Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys
			100				105						110		
Val	Thr	Val	Leu	Gly	Gln	Pro	Lys	Ala	Ala	Pro					
		115					120								

<210> 335  
 <211> 130  
 <212> PRT  
 <213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 335

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
Val	Met	Ile	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35				40						45			
Ser	Trp	Ile	Ser	Ser	Ser	Gly	Gly	Tyr	Thr	Ser	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70				75						80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90						95	
Ala	Lys	Gly	Pro	Gly	Thr	Arg	Gly	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
			100				105						110		
Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu
		115					120					125			
Ala	Pro														
	130														

<210> 336  
 <211> 13

<212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 336  
 Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn  
 1 5 10

<210> 337  
 <211> 5  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 337  
 Ser Tyr Val Met Ile  
 1 5

<210> 338  
 <211> 17  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 338  
 Trp Ile Ser Ser Ser Gly Gly Tyr Thr Ser Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 339  
 <211> 8  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 339  
 Gly Pro Gly Thr Arg Gly Asp Tyr  
 1 5

<210> 340  
 <211> 123  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 340



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Phe Tyr Ser His Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala
 1           5           10           15
Ser Ala Thr Pro Gly Gln Arg Val Thr Phe Ser Cys Ser Gly Ser Ser
          20           25           30
Ser Asn Ile Gly Ser Asn Ala Val Asn Trp Tyr His Gln Leu Pro Gly
          35           40           45
Thr Ala Pro Lys Leu Leu Ile Tyr His Asn Asn Gln Arg Pro Ser Gly
          50           55           60
Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
65           70           75           80
Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala
          85           90           95
Ala Trp Asp Asp Ser Leu His Gly Tyr Val Phe Gly Pro Gly Thr Lys
          100          105          110
Val Thr Val Leu Gly Gln Pro Lys Ala Asn Pro
          115          120

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<210> 341
<211> 131
<212> PRT
<213> Unknown

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<220>
<223> Heavy Chain amino acid sequence

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<400> 341
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ile Tyr
          20           25           30
Pro Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35           40           45
Ser Gly Ile Ser Pro Ser Gly Gly Tyr Thr Gly Tyr Ala Asp Ser Val
          50           55           60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65           70           75           80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
          85           90           95
Ala Arg Gly Gly Ile Ser Trp Phe Met Asp Tyr Trp Gly Gln Gly Thr
          100          105          110
Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
          115          120          125
Leu Ala Pro
          130

```

```

<210> 342
<211> 13
<212> PRT
<213> Unknown

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```

<220>
<223> Light Chain amino acid sequence

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```

<400> 342
Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Ala Val Asn
 1           5           10

```

<210> 343  
 <211> 7  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 343  
 His Asn Asn Gln Arg Pro Ser  
 1 5

<210> 344  
 <211> 11  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 344  
 Ala Ala Trp Asp Asp Ser Leu His Gly Tyr Val  
 1 5 10

<210> 345  
 <211> 5  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 345  
 Ile Tyr Pro Met Asn  
 1 5

<210> 346  
 <211> 17  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 346  
 Gly Ile Ser Pro Ser Gly Gly Tyr Thr Gly Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 347  
 <211> 9  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

&lt;400&gt; 347

Gly Gly Ile Ser Trp Phe Met Asp Tyr

1

5

&lt;210&gt; 348

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 348

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gggcagaggg	tcaccttctc	ttgttctgga	agcagctcca	acatcggaag	taatgctgta	120
aactggtacc	atcagctccc	aggaacggcc	cccaaactcc	tcattctatca	taataatcag	180
cgaccctcag	gggtccctga	ccgattctct	ggctccaagt	ctggcacctc	agcctccctg	240
gccatcagtg	ggctccagtc	tgaggatgag	gctgattatt	actgtgcagc	atgggatgac	300
agcctgcatg	gttatgtctt	cggacctggg	accaaggtca	ccgtcctagg	tcagcccaag	360
gccaacccc						369

&lt;210&gt; 349

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Heavy Chain nucleic acid sequence

&lt;400&gt; 349

gaagttcaat	tgtagagtc	tggtggcgg	cttggtcagc	ctggtgggtc	tttacgtctt	60
tcttgcgctg	cttccggatt	cactttctct	atttacccta	tgaattgggt	tcgccaagct	120
cctggtaaa	gtttgagtg	ggtttctgg	atctctcctt	ctggtggcta	tactggttat	180
gctgactccg	ttaaaggctg	cttcaactat	tctagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gagagggggc	300
atcagctggt	ttatggacta	ctggggccag	ggaaccctgg	tcaccgtctc	aagcgcctcc	360
accaagggcc	catcgtctt	cccgttagca	ccc			393

&lt;210&gt; 350

&lt;211&gt; 378

&lt;212&gt; DNA

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; Light Chain nucleic acid sequence

&lt;400&gt; 350

ttctattctc	acagtgcaca	gagcgtcttg	actcagcctc	gctcagtgct	cgggtctcct	60
ggacagtcag	tcaccatctc	ctgcactgga	accagtagtg	atgttggtgc	tagttataag	120
tttgtctcct	ggtaccaact	aaagccaggc	aaagcccca	aactcatgct	ttttaatgtc	180
cgtgagcggc	cctcaggggt	ccctgatcgc	ttttctgggt	ccaagtccgg	caacacggcc	240
tccctgacca	tctctgggct	ccaggctgag	gatgaggctg	actattactg	ctgttcctat	300
gcacgcggcc	agactttctc	ttatgtcttc	ggaggtggga	ccacggtcac	cgtcctagg	360
cagcccaagg	ccaacccc					378

&lt;210&gt; 351

<211> 402  
 <212> DNA  
 <213> Unknown

<220>

<223> Heavy Chain nucleic acid sequence

<400> 351

gaagttcaat	tgttagagtc	tggtggcggg	cttggttcagc	ctggtgggttc	tttacgtctt	60
tcttgcgctg	cttccggatt	cactttctct	cgttactcta	tgggggtgggt	tcgccaagct	120
cctggtaaag	gtttggagtg	ggtttcttct	atccgtcctt	ctggtggcta	tactcgttat	180
gctgactccg	ttaaagggtcg	cttcactatc	tctagagaca	actctaagaa	tactctctac	240
ttgcagatga	acagcttaag	ggctgaggac	actgcagtct	actattgtgc	gaaagatctg	300
gagtatagca	gtggctggtc	atttgactac	tggggccagg	gaaccctggg	caccgtctca	360
agcgctcca	ccaagggcc	atcggtcttc	ccgctagcac	cc		402

<210> 352

<211> 126

<212> PRT

<213> Unknown

<220>

<223> Light Chain amino acid sequence

<400> 352

Phe	Tyr	Ser	His	Ser	Ala	Gln	Ser	Val	Leu	Thr	Gln	Pro	Arg	Ser	Val
1				5					10					15	
Ser	Gly	Ser	Pro	Gly	Gln	Ser	Val	Thr	Ile	Ser	Cys	Thr	Gly	Thr	Ser
			20					25					30		
Ser	Asp	Val	Gly	Ala	Ser	Tyr	Lys	Phe	Val	Ser	Trp	Tyr	Gln	Leu	Lys
		35					40					45			
Pro	Gly	Lys	Ala	Pro	Lys	Leu	Met	Leu	Phe	Asn	Val	Arg	Glu	Arg	Pro
	50					55					60				
Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Lys	Ser	Gly	Asn	Thr	Ala
65					70				75					80	
Ser	Leu	Thr	Ile	Ser	Gly	Leu	Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr
				85				90						95	
Cys	Cys	Ser	Tyr	Ala	Arg	Gly	Gln	Thr	Phe	Ser	Tyr	Val	Phe	Gly	Gly
			100				105						110		
Gly	Thr	Thr	Val	Thr	Val	Leu	Gly	Gln	Pro	Lys	Ala	Asn	Pro		
		115					120						125		

<210> 353

<211> 134

<212> PRT

<213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 353

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Tyr
			20					25					30		
Ser	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40						45		

Ser Ser Ile Arg Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Lys Asp Leu Glu Tyr Ser Ser Gly Trp Ser Phe Asp Tyr Trp Gly  
 100 105 110  
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser  
 115 120 125  
 Val Phe Pro Leu Ala Pro  
 130

<210> 354  
 <211> 12  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Light Chain amino acid sequence

<400> 354  
 Cys Ser Tyr Ala Arg Gly Gln Thr Phe Ser Tyr Val  
 1 5 10

<210> 355  
 <211> 5  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 355  
 Arg Tyr Ser Met Gly  
 1 5

<210> 356  
 <211> 17  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Heavy Chain amino acid sequence

<400> 356  
 Ser Ile Arg Pro Ser Gly Gly Tyr Thr Arg Tyr Ala Asp Ser Val Lys  
 1 5 10 15  
 Gly

<210> 357  
 <211> 12  
 <212> PRT  
 <213> Unknown

<220>

<223> Heavy Chain amino acid sequence

<400> 357

Asp	Leu	Glu	Tyr	Ser	Ser	Gly	Trp	Ser	Phe	Asp	Tyr
1					5					10	

<210> 358

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 4

<223> Xaa = Gln orArg

<221> VARIANT

<222> 5

<223> Xaa = Asp, Gly, Arg, or Ser

<221> VARIANT

<222> 6

<223> Xaa = Val or Ile

<221> VARIANT

<222> 7

<223> Xaa = Arg, Ser or Asn

<221> VARIANT

<222> 8

<223> Xaa = Asn, Arg, His, Ser or Thr

<221> VARIANT

<222> (9)...(0)

<223> Xaa = Tyr, Asp, Glu, Trp, Asn or Ser

<221> VARIANT

<222> (10)...(0)

<223> Xaa = Leu, Val, or Tyr

<221> VARIANT

<222> (11)...(0)

<223> Xaa = Ala, Gly, Asn or Leu

<400> 358

Arg	Ala	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5						10	

<210> 359

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT  
 <222> 5, 7, 8  
 <223> Xaa = any amino acid, e.g., a hydrophilic amino acid

<221> VARIANT  
 <222> 6  
 <223> Xaa = Val or Ile

<221> VARIANT  
 <222> 9  
 <223> Xaa = Tyr, Asp, Glu, Trp, Asn or Ser

<221> VARIANT  
 <222> 10  
 <223> Xaa = is hydrophobic, or aliphatic

<400> 359  
 Arg Ala Ser Gln Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10

<210> 360  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 8  
 <223> Xaa = Gly, Glu, Asp or Ala

<221> VARIANT  
 <222> 9  
 <223> Xaa = Ser, Arg or Val

<221> VARIANT  
 <222> 10  
 <223> Xaa = Asn or Tyr

<221> VARIANT  
 <222> 11  
 <223> Xaa = Thr, Leu, Phe or Asp

<221> VARIANT  
 <222> 13  
 <223> Xaa = Tyr or Thr

<400> 360  
 Ser Gly Ser Ser Ser Asn Ile Xaa Xaa Xaa Xaa Val Xaa  
 1 5 10

<210> 361  
 <211> 14  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 7

<223> Xaa = Ile or Val

<221> VARIANT

<222> 9

<223> Xaa = Asp, Gly or Tyr

<221> VARIANT

<222> 11

<223> Xaa = Asn, Glu or Asp

<400> 361

Thr Gly Thr Ser Ser Asp Xaa Gly Xaa Tyr Xaa Tyr Val Ser  
1 5 10

<210> 362

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Ser or Thr

<221> VARIANT

<222> 2, 3

<223> Xaa = Asp or Asn

<400> 362

Xaa Xaa Xaa Gln Arg Pro Ser  
1 5

<210> 363

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 4

<223> Xaa = Ser or Thr

<221> VARIANT

<222> 5

<223> Xaa = Leu or Arg



<221> VARIANT

<222> 6

<223> Xaa = Gln or Ala

<400> 363

Gly Ala Ser Xaa Xaa Xaa

1

5

<210> 364

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Gln or Leu

<221> VARIANT

<222> 3

<223> Xaa = any amino acid or is hydrophilic, Ala, or Gly,

<221> VARIANT

<222> 4, 5

<223> Xaa = any amino acid or is hydrophilic

<221> VARIANT

<222> 6

<223> Xaa = aromatic, Thr , Arg or Lys

<221> VARIANT

<222> 8

<223> Xaa is hydrophobic

<400> 364

Xaa Gln Xaa Xaa Xaa Xaa Pro Xaa

1

5

<210> 365

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 4, 5

<223> Xaa = any amino acid

<221> VARIANT

<222> 6

<223> Xaa = hydrophobic (e.g., aromatic)

<221> VARIANT

<222> 8

<223> Xaa = Pro, Leu or Arg

<400> 365

Gln Gln Tyr Xaa Xaa Xaa Pro Xaa Thr  
1 5

<210> 366

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 9

<223> Xaa = hydrophobic

<400> 366

Ala Trp Asp Asp Ser Leu Ser Gly Xaa Val  
1 5 10

<210> 367

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 9

<223> Xaa = Val or Trp

<400> 367

Ala Trp Asp Asp Ser Leu Ser Gly Xaa Val  
1 5 10

<210> 368

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 2

<223> Xaa = Ala or Thr

<221> VARIANT

<222> 5

<223> Xaa = Asp, Asn, Glu or Gln

<221> VARIANT

<222> 6  
 <223> Xaa = Ser or Thr

<221> VARIANT  
 <222> 8  
 <223> Xaa = Ser, Arg or Thr

<221> VARIANT  
 <222> 10  
 <223> Xaa = Val or trp

<400> 368  
 Ala Xaa Trp Asp Xaa Xaa Leu Xaa Gly Xaa Val  
 1 5 10

<210> 369  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 2  
 <223> Xaa = any amino acid , Trp, Asp, Lys, Thr, Arg,  
 His or Pro

<221> VARIANT  
 <222> 4  
 <223> Xaa = Asn, Trp, Asp, Glu, Pro, Thr, Arg, Ser, Val  
 or Phe

<400> 369  
 Tyr Xaa Met Xaa  
 1

<210> 370  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 1  
 <223> Xaa = arimatic

<221> VARIANT  
 <222> 3  
 <223> Xaa = any amino acid

<221> VARIANT  
 <222> 5  
 <223> Xaa = Asn, Trp, Asp, Glu, Pro, Thr, Ser, Val or  
 Phe

<400> 370

Xaa Tyr Xaa Met Xaa

1 5

<210> 371

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 3

<223> Xaa = any amino acid, Trp, His or Thr

<400> 371

Trp Tyr Xaa Met

1

<210> 372

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 3

<223> Xaa = any amino acid

<400> 372

Gln Tyr Xaa Met

1

<210> 373

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 2

<223> Xaa = any amino acid, hydrophobic or Val, Tyr,  
Trp, Arg, Ser, or Gly

<221> VARIANT

<222> 3

<223> Xaa = Pro or Ser

<400> 373

Ile Xaa Xaa Ser Gly Gly

1 5

<210> 374  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 2, 7  
 <223> Xaa = any amino acid

<221> VARIANT  
 <222> 3  
 <223> Xaa = Pro or Ser

<400> 374  
 Ile Xaa Xaa Ser Gly Gly Xaa Thr  
 1 5

<210> 375  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 2  
 <223> Xaa = Ser, Val, Tyr, Trp, Arg or Gly

<221> VARIANT  
 <222> 3  
 <223> xaa = Pro or Ser

<221> VARIANT  
 <222> 7  
 <223> Xaa = Gly, Lys, Leu, Arg, His, Phe, Tyr, Thr, Gly,  
 Gln, Asp, Met, Ile or Asn

<400> 375  
 Ile Xaa Xaa Ser Gly Gly Xaa Thr  
 1 5

<210> 376  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 2  
 <223> Xaa = Ser, Val, Tyr, Trp, Arg or Gly

<221> VARIANT

<222> 3

<223> Xaa = Pro or Ser

<221> VARIANT

<222> 7, 9

<223> Xaa = any amino acid

<400> 376

Ile	Xaa	Xaa	Ser	Gly	Gly	Xaa	Thr	Xaa	Tyr	Ala	Asp	Ser	Val	Lys	Gly
1				5					10					15	

<210> 377

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1, 2

<223> Xaa = Ser or Gly

<400> 377

Xaa	Xaa	Trp	Tyr
1			

<210> 378

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 3

<223> Xaa = Ser or Gly

<400> 378

Ser	Ser	Xaa	Trp	Tyr
1			5	

<210> 379

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Arg, His, Trp or Tyr

<400> 379  
 Xaa Tyr Tyr Tyr Gly Met  
   1                  5

<210> 380  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 1  
 <223> Xaa = Tyr, Ser or Gly

<221> VARIANT  
 <222> 2  
 <223> Xaa = Arg, His, Trp or Tyr

<400> 380  
 Xaa Xaa Tyr Tyr Tyr Gly Met Asp  
   1                  5

<210> 381  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 1  
 <223> Xaa = Ala, Gly, Gln, Ser or Val

<221> VARIANT  
 <222> 2  
 <223> Xaa = Ala, Thr or Ser

<221> VARIANT  
 <222> 3  
 <223> Xaa = aromatic

<221> VARIANT  
 <222> 4  
 <223> Xaa = any amino acid, or Glu, Asp, Arg, Thr or Ser

<221> VARIANT  
 <222> 5  
 <223> Xaa = any amino acid, or Asp, Asn, Gln, Lys, Arg  
           or Ser

<221> VARIANT  
 <222> (7)...(0)  
 <223> Xaa = any amino acid, or Ser, Leu, Thr or Asn

<221> VARIANT  
 <222> (6)...(0)  
 <223> Xaa = Ser, Thr, Gly or Ala

<221> VARIANT  
 <222> (8)...(0)  
 <223> Xaa = Ser, Thr, Arg or Gly

<221> VARIANT  
 <222> (9)...(0)  
 <223> Xaa = Gly, Pro, Asn or Phe

<221> VARIANT  
 <222> (10)...(0)  
 <223> Xaa = any amino acid

<400> 381  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val  
   1                  5                  10

<210> 382  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 1  
 <223> Xaa = Ser or Thr

<221> VARIANT  
 <222> 2, 3, 4  
 <223> Xaa = hydrophilic

<221> VARIANT  
 <222> 5  
 <223> Xaa = Leu, Arg or Asn

<221> VARIANT  
 <222> 6  
 <223> Xaa = pro, Arg or Gln

<400> 382  
 Xaa Xaa Xaa Xaa Xaa Xaa Ser  
   1                  5

<210> 383  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT



<222> 3  
 <223> Xaa = Ser or Gly

<221> VARIANT  
 <222> 5  
 <223> Xaa = Ser or Tyr

<400> 383  
 Ser Ser Xaa Trp Xaa  
 1 5

<210> 384  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 1  
 <223> Xaa = Ala, Asp, Glu or Gly

<221> VARIANT  
 <222> 2  
 <223> Xaa = Ala, Val, Asp, Asn or Glu

<221> VARIANT  
 <222> 3  
 <223> Xaa = Ala, Ser, Thr, Asn or Val

<221> VARIANT  
 <222> 4  
 <223> Xaa = Ser, Thr, Asn or Gln

<221> VARIANT  
 <222> 5  
 <223> Xaa = Leu, Arg or Asn

<221> VARIANT  
 <222> (6)...(0)  
 <223> Xaa = Ala, Gln, Pro or Arg

<221> VARIANT  
 <222> (7)...(0)  
 <223> Xaa = Thr, Phe, Ser, Lys or Pro

<400> 384  
 Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5

<210> 385  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Ala, Asp, Glu, Asn or Gly

<221> VARIANT

<222> 2

<223> Xaa = Ala, Val, Asp, Asn or Glu

<221> VARIANT

<222> 3

<223> Xaa = Ala, Ser, Thr, Arg, Asn or Val

<221> VARIANT

<222> 4

<223> Xaa = Ser, Thr, Asn or Gln

<221> VARIANT

<222> 5

<223> Xaa = Leu, Arg or Asn

<221> VARIANT

<222> (6)...(0)

<223> Xaa = Ala, Gln, Pro or Arg

<221> VARIANT

<222> (70)...(0)

<223> Xaa = Thr, Phe, Ser, Lys or Pro

<400> 385

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 386

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Ala, Asp or Glu

<221> VARIANT

<222> 2

<223> Xaa = Ala or Val

<221> VARIANT

<222> 3

<223> Xaa = Ala, Ser or Thr

<221> VARIANT

<222> 4

<223> Xaa = Ser or Thr

<221> VARIANT

<222> 5

<223> Xaa = Leu or Arg

<221> VARIANT

<222> (6)...(0)

<223> Xaa = Ala or Gln

<221> VARIANT

<222> (7)...(0)

<223> Xaa = Thr, Phe, Ser or Lys

<400> 386

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 387

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 7

<223> Xaa = Ile or Val

<221> VARIANT

<222> 9

<223> Xaa = Ala, Asp, Gly or Tyr

<221> VARIANT

<222> 11

<223> Xaa = Asn, Lys, Glu or Asp

<221> VARIANT

<222> 12

<223> Xaa = Tyr or Phe

<400> 387

Thr Gly Thr Ser Ser Asp Xaa Gly Xaa Tyr Xaa Xaa Val Ser

1

5

10

<210> 388

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Asn, Ser or Thr

<221> VARIANT  
 <222> 2, 3, 4  
 <223> Xaa = hydrophilic

<221> VARIANT  
 <222> 5  
 <223> Xaa = Leu, Arg or Asn

<221> VARIANT  
 <222> 6  
 <223> Xaa = Pro, Arg or Gln

<400> 388  
 Xaa Xaa Xaa Xaa Xaa Xaa Ser  
 1 5

<210> 389  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 8  
 <223> Xaa = Gly, Glu, Asp or Ala

<221> VARIANT  
 <222> 9  
 <223> Xaa = Ser, Arg or Val

<221> VARIANT  
 <222> 10  
 <223> Xaa = Ala, Asn or Tyr

<221> VARIANT  
 <222> 11  
 <223> Xaa = Thr, leu, Phe or Asp

<221> VARIANT  
 <222> 13  
 <223> Xaa = Asn, Tyr or Thr

<400> 389  
 Ser Gly Ser Ser Ser Asn Ile Xaa Xaa Xaa Xaa Val Xaa  
 1 5 10

<210> 390  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT

<222> 1  
 <223> Xaa = his, Ser or Thr

<221> VARIANT  
 <222> 2, 3  
 <223> Xaa = Asp or Asn

<221> VARIANT  
 <222> 4  
 <223> Xaa = Gln or Tyr

<400> 390  
 Xaa Xaa Xaa Xaa Arg Pro  
 1 5

<210> 391  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

<221> VARIANT  
 <222> 2  
 <223> Xaa = Ala or Thr

<221> VARIANT  
 <222> 5  
 <223> Xaa = Asp, Asn, Glu or Gln

<221> VARIANT  
 <222> 6  
 <223> Xaa = Ser or Thr

<221> VARIANT  
 <222> 8  
 <223> Xaa = any anini acid, e.g. Ser, Arg, Thr, His or  
 Asn

<221> VARIANT  
 <222> 10  
 <223> Xaa = any amino acid, e.g., hydrophobic, e.g.,  
 Val, Tyr or Trp

<400> 391  
 Ala Xaa Trp Asp Xaa Xaa Leu Xaa Gly Xaa Val  
 1 5 10

<210> 392  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Exemplary motif

```

<221> VARIANT
<222> 1
<223> Xaa = Asn, Gln, Arg or Lys

<221> VARIANT
<222> 2
<223> Xaa = hydrophilic, Ala or Gly

<221> VARIANT
<222> 3
<223> Xaa = Aliphatic

<221> VARIANT
<222> 4, 5
<223> Xaa = hydrophilic

<221> VARIANT
<222> 6
<223> Xaa = any amino acid, or aromatic or hydrophilic

<221> VARIANT
<222> (7)...(0)
<223> Xaa = hydrophobic

<400> 392
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5

<210> 393
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary motif

<221> VARIANT
<222> 1
<223> Xaa = Thr or Ser

<221> VARIANT
<222> 2
<223> Xaa = Asp or Glu

<221> VARIANT
<222> 3
<223> Xaa = Aliphatic

<221> VARIANT
<222> 5
<223> Xaa = hydrophilic or Gly

<221> VARIANT
<222> 7
<223> Xaa = hydrophilic, or Asn, Glu, Asp or Gln

<400> 393

```

Xaa Xaa Xaa Gly Xaa Tyr Xaa Xaa Xaa Xaa  
1 5 10

<210> 394

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary motif

<400> 394

Asp Phe Gly Ser

1